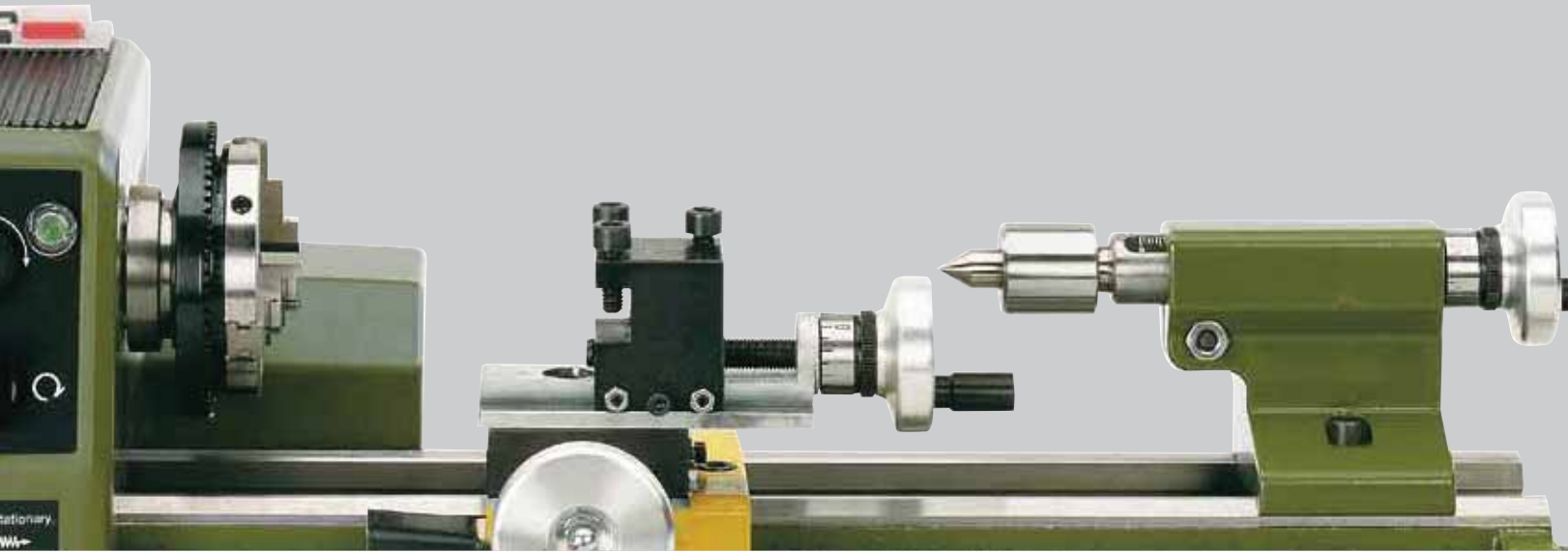
PROXXON

PROXXON MICROMOT System

Tools with character!

Edition 2013 / 2014



PROXXON MICROMOT System

SUPERIOR TECHNOLOGY AND QUALITY!

Feel, see and enjoy the quality!

To users all over the world PROXXON means advanced, competitive, high quality technology. PROXXON individually test each product before it leaves the factory to ensure it arrives to you in immaculate condition.

Our exclusive distributor for the North American market, Prox-Tech, Inc. has a wealth of experience and extensive knowledge of our line and is happy to help you with any questions you may have.

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Our website www.proxxon.com/us offers an instructional video for the articles marked with this symbol. Come have a look!

PROXXON MICROMOT System

Performance at its best! The torque makes the difference! The smart alternative with keyless chuck.

The Precision Rotary Tool FBS 115/E –
with soft grip two-component housing for comfortable handling and optimal control.

1001 uses for drilling, milling, grinding, polishing, brushing, de-burring, rust removal, engraving, carving and cutting. A special motor technology (no replacing of brushes necessary) with full-wave electronic speed control allows for powerful operation with constant torque, even at low speeds! This feature is especially important when micro-drilling, brushing and polishing on delicate materials (e.g. plastics, etc.).

The extremely balanced motor, which makes the tool run smoothly and vibration-free, as well as low weight and the improved ergonomic design with the soft-grip two-component material allow for optimal control while working. The spindle runs in a precision ball bearing. A button locks the spindle for an easy exchange of bits. The keyless precision chuck allows for quick exchange of all accessories with shanks from Ø1/64" to Ø1/8" (0.3 – 3.2mm). The tool's 4/5" (20mm) standard collar makes it fit easily into all other useful MICROMOT accessories, such as drill stands and vices, making this Precision Rotary Tool even more versatile.

Technical data:

Speed	5,000 – 20,000rpm
Keyless Chuck	for shanks from 1/64" – 1/8" (0.3 – 3.2mm)
Max Power	1/8hp (100W)
Volts	110 – 120V AC, 60 Hz
Length	8 1/2" with chuck (220mm)
Weight	1 lb (450g)

NO 38 472

DM/062524 Design Patent All rights by PROXXON

Soft grip for optimal control.

NOTE:
The FBS 115/E may also be optionally fitted with MICROMOT steel collets (see page 4).

Design Patent All rights by PROXXON

Complete with 43 high quality bits and cutters in a durable plastic case.

PROXXON MICROMOT System

Compact precision machines with aluminum die-cast head. True one-hand-operation tools. Quiet, precise and efficient !

Professional Rotary Tool IBS/E

NEW

- **Usable for extended periods when grinding, polishing, cleaning, cutting and engraving.**
- **Ideal for mechanics, model builders, jewelers, opticians, artists and electronic enthusiasts.**

Complete with 34 bits and cutters of industrial quality with shanks of 3/32" (2.3mm) and six steel collets sized 1/32" – 1/8" (1.0 – 3.2mm) as well a a collet nut.

This high-revving motor has full-wave electronic speed control capable of producing variable speeds between 5,000 and 20,000rpm and is usable for extended periods at a time producing an exceptional power/weight ratio. The streamlined die-cast aluminum head provides a stable housing for the ground steel spindle. It runs in a ball bearing assembly, minimizing play (max. runout 0.001").
The tool comes with six high concentricity collets sized 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.4, 3.0 and 3.2mm) along with a collet nut as well as a selection of 34 industrial quality bits and cutters with shanks Ø 3/32" (2.3mm).

Technical data:

Speed	5,000 – 20,000rpm
Volts	110 – 120V AC, 60Hz
Max Power	1/8hp (100W)
Length	9" (230mm)
Weight	1.2 lb (500g)

NO 38 481

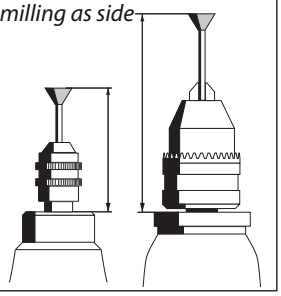
Storage case of high-grade PP. Attractive, extremely stable and large enough to enable the machine to be replaced in it after completion of the work. A label on the side identifies the content.

MICROMOT Steel Collet Set

Fits all MICROMOT machines, except the engraver GG 12.
One each in size 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.4, 3.0 and 3.2 mm) come as a set in a practical holder for storage along with one clamping nut.
NO 28 940

NOTE: The collet makes a big difference!
1 *MICROMOT steel collets are hardened and have a high, consistent flexibility so that they maintain their accuracy, even if used regularly.*
2 *The triple slit collet offers a substantially better load bearing surface than the easier to produce four-slit type. This is especially important for cutters with small shank diameters.*

NOTE:
Quality, triple-slit hardened steel collets are ideal for optimum concentricity and tightening force. Furthermore, bits and cutters may be fitted close to the chuck. This is especially important when sanding, routing and milling as side play is minimized.



PROXXON MICROMOT System

The long slim die-cast head makes these sanders preeminently versatile!

Longneck Angle Grinder LHW/E NEW

This light, compact and user-friendly unit is the real alternative to pneumatic tools for grinding, deburring, roughing, finishing – wherever working in tight spaces. It is also great for paint and rust removal, cutting small components and sharpening tools.
The powerful permanent magnet motor has a high lifetime and performs with high torque.

Technical data:

Volts	110 – 120V AC, 60 Hz,
Max. Power	1/8hp (100W)
Speed	3,300 – 13,000rpm
Length	11 13/32" (290mm)
Weight	1.2 lb (550g)
Disc	Ø 2" (50mm), bore: 13/32" (10mm)

Complete with one aluminum-oxide grinding disc (60 grit), one flap disc (100 grit) and one aluminum-oxide cut-off wheel.
NO 38 544

Flap Disc The flap disc is made from aluminum-oxide with a high stock removal rate and is ideal for grinding and smoothing of cast iron, gray cast iron, stainless steel, steel, non-ferrous metal, wood and plastic.
NO 28 590 (100 grit)

Corundum Bound Cut-Off Wheel
Ideal for cutting steel, non-ferrous metals, smaller plastic and wooden bars.
NO 28 154

Corundum Grinding Disc for LHW/E
Ideal for grinding, deburring, sharpening, rust removal and roughing of steel and non-ferrous metal.
NO 28 585 (60 grit)

Silicon-Carbide Grinding Disc
Ideal for grinding, deburring, sharpening, rust removal and roughing of stone, glass, ceramics and other very hard materials.
NO 28 587 (60 grit)

Backing Disc for LHW/E
Hook and loop type, for use with sanding discs and sanding fleece.
NO 28 548

Corundum Sanding Discs
Hook and loop type, used on flat and convex surfaces.
NO 28 549 80 grit set of 12
NO 28 550 150 grit set of 12

Sanding Fleece for LHW/E
Hook and loop type, used for cleaning, matting and sanding of steel, stainless, steel, non-ferrous metals. Also used for paint removal.
NO 28 554 medium set of 5
NO 28 555 fine set of 5

Disc with tungsten carbide burrs

Carving wheel with needle-like tungsten carbide teeth. Ideal for carving and sculpting, roughing and finishing in wood plastics and fiberglass. Smooth cutting and excellent control. Maximum RPM 15,000.
Do not use on metal.

NO 29 050

PROXXON MICROMOT System

Oscillating motion far better than conventional orbital motion. Hence suitable for cutting and precision carving.

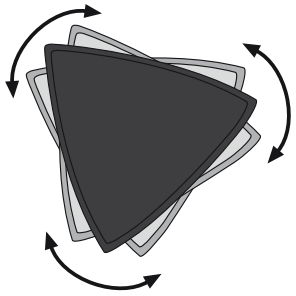
Delta sander OZI/E

NEW

Head of die-cast zinc, ensuring exact and stable housing for the moving parts.

Sanding area
2 1/2" x 2 1/2" x 2 1/2"
(65 x 65 x 65mm) with
hook & loop pads
allows quick changing.

DM/029328 Design Patent All rights by PROXXON



The oscillating motion ensures lack of vibration and kickback and allows the fitting of cutting blades too!

Small yet efficient sander!
For sanding surfaces in very tight spots, e.g. corners, sides and in-accessible areas. The oscillating motion ensures quiet operation and also facilitates cutting, plunge cuts and filing! The variable speed ensures the correct speed for every material. Special, balanced, low noise DC motor with high life expectancy. Main housing of glass-fibre reinforced POLYAMIDE. Complete with 4 sanding discs (2x 80 grit, 1x 150 grit and 1x 240 grit). Comes in an attractive case, as described on the right.

Technical data:

Volts	110 – 120V AC, 60Hz
Max. Power	1/8hp (100W)
Speed	3,000 – 10,000 oscillations/min.
Length	9" (230mm)
Weight	1.2 lb (550g)
Sanding plate dimensions	2 1/2" x 2 1/2" x 2 1/2" (65 x 65 x 65mm)

NO 38 520

000248174 Design Patent All rights by PROXXON

This set comes in an attractive storage case of high-grade PP complete with 4 sheets of sandpaper (2 x 80 grit, 1 x 150 grit, 1 x 240 grit).

The OZI/E cuts in areas where a rotating saw blade can no longer be used (in this case using the HSS separation blade, see p. 9).

For precision square excavations, HSS plunge saw blades are available with an 8 and 14mm width of cut.

PROXXON MICROMOT System

Precison equipement for cutting. Small and comfortable.

Sanding pads for OZI/E

High durability aluminium oxide pads. Deposited on special backing paper. Hook & loop type.

NO 28 891	80 grit	25 pieces
NO 28 893	150 grit	25 pieces
NO 28 895	240 grit	25 pieces

HSS cutting blade for OZI/E

Oscillates, making it ideal for cutting metal, wood, PC cards, plastics, plaster of Paris and many other materials.
The segment cut facilitates exact cutting right into corners.

NO 28 900 ø 2 1/2" (65mm), 160 teeth

Diamond cutting blade for OZI/E

Operation as described above for the HSS blade. Cuts marble, bricks, dry wall and many other materials. Ideal for interior finishing and sanitary and electrical installation.

NO 28 902 ø 2 1/2" (65mm)

HSS plunge saw blades for OZI/E

For exact square excavations and other forms. For making hatchways and windows in ship and aircraft models. Cuts wood, ply-wood, plastics and aluminium.
Max. plunge depth 16mm.
NO 28 897 Saw blade width 5/16" (8mm)
NO 28 898 Saw blade width 35/64" (14m

Super jig saw STS/E NEW

This tool offers fantastic cutting capacity with the footplate adjustable up to 45 degrees for mitre cuts. The gear head is made of die-cast aluminum. The stroke speed is variable by means of full wave electronic speed control. Ideal for tight curves in wood (up to 1/2" / 12mm), non-ferrous metals (up to 1/8"/3mm) and plastics.

Technical data:

Volts:	110 – 120V AC, 60Hz
Speed:	2,000 – 4,500 strokes/min
Max power:	1/8hp (100W)
Overall length:	9" (230mm)
Weight:	1.54 lb (700g)

NO 38 530

Jig Saw Blades. Special steel.

Pitch of 1/16" (1.5mm), teeth ground & set. Usable on hard & soft woods, plywood, fibreglass reinforced sheets as well as various plastics. Ideal for tight curves and clean cuts. For use with jig saws STS 12/E (see page 15) and STS/E.
NO 28 054 Pack of 2

Jig Saw Blades. HSS.

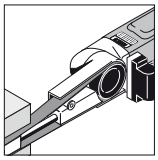
Tooth pitch of 3/64" (1.06mm), with teeth set & ground. Usable on metals, aluminium and softer alloys, fibreglass, Plexiglass and insulating materials. For use with jig saws STS 12/E (see page 15) and STS/E.
NO 28 056 Pack of 2

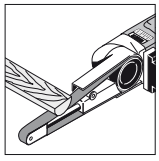
PROXXON MICROMOT System

Precision equipment for sanding. Small and comfortable. Die-cast aluminum heads.

Belt Sander BS/E

NEW





DM/032339 Design Patent All rights by PROXXON

A light, compact and user-friendly unit that makes sanding in tight spaces more convenient. Used in modeling, sculpturing, tool- and die-making or the automotive sector. The belt sander has a speed control for variable speeds from 16 – 38 ft/s (300 – 700m/min.), which enables to work on many different materials, such as wood, metal or plastic. It can be used for grinding and enlarging small openings, grinding in notches, regrinding moulds or polishing (flat surfaces). It is also great for deburring, rounding edges or removing paint. Recentering or tilting the belt is easily done with a screwdriver.

Technical data:

Volts	110 – 120V AC, 60Hz
Max. Power	1/8hp (100W)
Belt Speed	16 – 38 ft./s (300 – 700m/min)
Length	13 3/4" (350mm)
Weight	1.4 lb (650g)
Belt Size	13" x 13/32" (330 x 10mm)

Comes with two 80 grit and two 180 grit sanding belts.

NO 38 536

The belt arm itself is adjustable within an angle of 60° by the push of a button on the head.

Replacement Sanding Belts for Belt Sander BS/E

Made from high-quality aluminum-oxide on tough, woven, lightweight cloth backing. For sanding metal, non-ferrous metal, wood and plastic.

NO 28 581	180 grit	set of 5
NO 28 582	120 grit	set of 5
NO 28 583	80 grit	set of 5

Silicon Carbide Sanding Belt

for use on glass, ceramics, brass, steel and cast iron.

NO 28 579	180 grit	set of 5

MICROMOT Tool Clamp –
For stationary use of MICROMOT hand-held tools.

Whenever working free hand is difficult or dangerous, here is the solution for the stationary use of MICROMOT hand-held tools. With a tough fiberglass reinforced construction, this tool clamp perfectly fits around the body of our hand-held tools with aluminum-die cast head such as Professional Rotary Tool IBS/E (38 481), Longneck Angle Grinder LHW/E (38 544), Belt Sander BS/E (38 536) and Detail Sander OZI/E (38 520) as well as our Jig Saws STS 12/E (28 534) and STS/E (38 530).

The tool clamp is easily clamped via two flaps in a vice (we recommend our Precision Vice FMS 75 or Precision Vice with Clamp FMZ).

NO 28 410

PROXXON MICROMOT System

Compact, light and well balanced. With an extra powerful drive for a high material removal capacity.

Belt Sander BBS/S

The package also includes a C-Clamp for stationary use.

The sanding belt is located flush on the left side to allow surfaces to be sanded "right into the corner". A fine adjustment for the rollers prevents the belt from running off the side. It includes a Spring Clamping System for easy replacement of belts without tools. Housing of fiber-glass reinforced POLYAMIDE. Packed in a sturdy plastic carrying case together with five each 150 grit and 240 grit sanding belts.

Technical data:

Volts	110 – 120V AC, 60Hz
Max. Power	0.2hp (150W)
Sanding Belt	1 37/64" x 10 7/16" (40 x 265mm)
Sanding surface	2 23/64" x 1 37/64" (60 x 40mm)
Belt speed	525 ft/min (160m/min)
Weight	1.54 lbs (700g)

NO 38 526

The BBS/S is supplied in a high quality PP storage case. It is extremely stable and large enough to enable the machine to be replaced in it after completion of the work.
A label on the side identifies the contents.

Replacement Sanding Belts for Belt Sander BBS/S
Made from high quality aluminum oxide on tough, woven lightweight cloth backing. For use on metal, non-ferrous metals, wood and plastics. Belt size 1 37/64" x 10 7/16" (40 x 265mm).

NO 28 922	80 grit	set of 5
NO 28 924	150 grit	set of 5
NO 28 928	240 grit	set of 5

PROXXON MICROMOT System

This tool takes the work out of your carving projects.

Power Carver MSG

NEW

Design Patent

Three bi-metalic Japanese carving blades included.

For the carving of all types of wood. For the restoration of furniture and for the restoration of antiques. For linocuts and precision paint removal.
It is also possible to process plaster. Special, balanced, low noise DC motor with extreme high life expectancy. Gear head made of die-cast aluminum. Main housing of fiberglass reinforced POLYAMIDE. Three high-grade Japanese knife inserts made from bimetal (U-form, V-form ad flat blade) are included.

Technical data:

Speed	10,000 cuts/min.
Max. Power	1/10 hp (50W)
Volts	110 – 120V AC, 60Hz
Overall length	9" (230mm) w/o knife
Weight	1.5 lb (680g)

The Power Carver MOS is supplied in a high-grade polypropylene storage case. It is attractive, extremely stable and sufficiently large to enable the machine to be replaced in it after completion of the work without fiddly refitting. A clear label on the side identifies the contens.

Design Patent

NO 38 644

Replacement Carving Blades

High quality laminated steel (bi-metal) blades in V shape, large and small gouge, flat with straight and rounded cutting edge. All 5 to a set.
For carving and detailing wood (all types), plaster of Paris, gas concrete, linoleum. Also for removing fine layers of paint or finish.
NO 28 572

Includes 5 different shapes:

Note:
The new wolfram carbide rasp plate is ideal for woodcarvers and as a supplement for a motorised carving machine (material as described earlier) in connection with our LW/E Long-neck Angle Grinder.
Details on page 5.

Profiled Sharpening Stone

Pure oilstone for a razor sharp cutting edge. With pre-profiled surface for easy sharpening and reshaping all carving knives in the PROXXON program (see above). Approx. dimensions 3 7/8" x 2 5/8" x 3/4" (100 x 65 x 20mm).

NO 28 578

PROXXON MICROMOT System

The ideal starter set for all engraving applications.

Complete Glass Engraving Set

With engraver GG 12, trial glass, patterns and all necessary bits to start right away.

12 VOLT

The engraver GG 12 spins at 20,000 rpm, yet weighs only 4 ounces! It allows for easy control and thus very safe operation featuring a touch sensitive switch for easy use and a simple push in/pull out shaft holder for easy accessory changeover (shaft capacity Ø 3/32" (2.35mm) only).

The set includes: Engraver GG 12, AC adapter (12 –18V, 0.5A) trial glass and four bits: two spherical head diamond grinding bits Ø 1/32" (1,0mm) and Ø 5/64" (1,8mm) for engraving and line work, two silicon carbide grinding bits (conical and bullet shape) for shading and frosting, one corundum grinding bit in ball and cylinder shape for grinding and engraving (all shanks 3/32" (2.35mm)) as well as a bit holder usable for holding MICROMOT rotating bits. The bits are also optimal for working on metal, stone, shell and other hard materials.

NO 38 635

A neat storage solution! Each part finds its place in a practical and sturdy plastic case.

Engraver GG 12

12 VOLT

Fast rotary action for effective engraving work.

The unit (as described below) is also available by itself and comes with 1 diamond bit with spherical head size 5/64" (1.8mm). Engrave for hours without fatigue.

Our 12V powered high-speed engraving tool lets you realize the finest details in glass, metal, wood, and plastic. It has the size and weight of a very fine writing instrument. You'll have more control than you ever thought possible. It allows you to work precisely.

For operating this unit we recommend PROXXON MICROMOT power supplies NG 2/S and NG 5/E or other power supply units with a minimum capacity of 0.5A.

NO 28 592

PROXXON MICROMOT System

Rotary Tools MICROMOT 50 and 50/E - optimal for milling, drilling, routing, polishing, cutting, cleaning, brushing, deburring, sawing, engraving, carving, etc.

MICROMOT 50 and 50/E

These two lightweight high precision tools in a pen style design (Ø only 1 3/8") are ergonomically formed to allow comfortable handling and optimal control. Their quietness and effortless, vibration-free drive via the special permanent magnet motor, the ground spindle and collar bearing all contribute to the ergonomic design. An efficient cooling system facilitates extended use under various load conditions.
Both tools are useable on any workable material e.g. steel, precious metals, wood, glass, ceramics, plastics, precious stones.
They are ideal for model builders, woodcarvers, jewelers, opticians, artists, dental technicians, tool and die makers, etc.

12 VOLT

MM 50

Ergonomically gripping area shaped for a comfortable feel and optimal control.

DM/062956 Design Patent All rights by PROXXON

MM 50/E

Instead of the MICROMOT steel collet system, the keyless chuck (No 28 941) is also an option when bits need to be exchanged often, see page 13.

The MICROMOT standard 4/5" (20mm) collar allows for easy use in Drill Stand MB 140/S and MB 200, Universal Holders UHV and UHZ, see pages 18 and 19.

Rotary Tool MICROMOT 50/E

A specially balanced motor makes this tool run very smoothly at variable speeds from 5,000 – 20,000rpm (no load). It comes with 6 high precision triple slit steel collets in sizes 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.4, 3.0 and 3.2mm) which ensure accurate clamping of the bits for highest concentricity and the precision you need for finest work pieces. Weight: 1.2 lb (230g), length: 8 21/32" (220mm). Low voltage for optimal safety, 12V DC, max 40W input. As power supply source we recommend MICROMOT transformers of at least 1.0A.

NO 28 510

Rotary Tool MICROMOT 50

Same as 50/E, except without speed control. Load speed is 20,000rpm. If you run this machine while using our transformer NG 5/E as power supply, speeds are adjustable betweeen 5,000 and 20,000rpm via the speed control on the work station (see page 14).

NO 28 500

NOTE: The collet makes a big difference!

1. *MICROMOT steel collets are hardened and have a high, consistent flexibility so that they maintain their accuracy, even if used regularly.*
2. *The triple slit collet offers a substantially better load bearing surface than the easier to produce four-slit type. This is especially important for cutters with small shank diameters.*

PROXXON MICROMOT System

The 50/EF with quick-action chuck. Practical for use with multiple shank diameters.

MICROMOT 50/EF

Slim, easily handled and light.
Quick-action chuck and electronic revolutions adjustment, with feed-back effect (high engine power in the lower revolutions area). Specialty balanced, low noise DC motor with high life expectancy. A transformer is required for operation.
We recommend MICROMOT network devices from 1.0A.

Technical data:
Direct voltage 12 – 18V. Power absorption up to 40W input. 5,000 – 20,000/min. Length: 8 21/32" (220mm). Weight: 1.2 lb (230g).

NO 28 512

MICROMOT extension cord. 10 feet (300cm).

For all 12V machines. Plug and wall-socket reverse polarity-protected.

NO 28 992

20mm-system adaptation. For flange mounting of MICROMOT accessories.

Quick-action chuck will accept 1/64" – 1/8" (0.3 – 3.2mm) shanks. Primarily advantageous when working with HSS drill bits of different sizes.

12 VOLT

Stable housing made of fibre-glass reinforced POLYAMIDE. With a pleasantly soft handle.

Complete Model Building and Engraving Set
The right choice for creative hobbyists and model makers.

The rotary tool MICROMOT 50/E (as described on page 12) comes in this set with 6 high precision triple slit steel collets in sizes 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.4, 3.0 and 3.2mm) which ensure accurate clamping of the bits for highest concentricity and the precision you need for finest work pieces. This kit includes an AC adapter (12 –18V, 1.0A) and a selection of 34 useful bits (1 diamond grinding bit, 1 fine cutter, 1/64" and 1/32" (0.5 and 1.0mm) micro-drills, 1 brass brush, 4 aluminum-oxide grinding bits (cylinder, sphere, disc and cone shaped), 1 spring steel saw blade, 4 grinding wheels 7/8" x 7/64" (22 x 3mm), 2 each aluminum-oxide and silicon carbide, 20 cutting discs and 1 mandrel.
NO 38 515

A neat storage solution! Each part finds its place in a practical and sturdy plastic case.

PROXXON MICROMOT System

MICROMOT AC voltage adapters - safe and efficient power sources for hand held 12 volt PROXXON machines, with practical tool rest.

MICROMOT AC Adapter NG 2/S

1MR107 Design Patent All rights by PROXXON

Tool and accessories not included.

These transformers are the optimal power source for these fine PROXXON tools:

- MICROMOT 50, 50/E and 50/EF
- Pen Sander PS 13
- Jig Saw STS 12/E
- Engraving Tool GG 12
- Precision Drill Grinder FBS 12/EF

NOTE
Power consumption of portable machine tools is measured according to the internationally accepted ICE-745-1 specification. The current drawn is measured, not the power consumption with a hot motor just before stalling. In practice, this condition seldom appears, if ever. All PROXXON AC adapters are suitably dimensioned for the recommended purposes.

Very compact design. Noryl casing (heat resistant - a necessity for transformer enclosures). Capacity 2,0A at 16 Volt open circuit - and 12 Volt under load = 24VA (DC). Primary supply 110 – 120V. Polarized socket for MICROMOT plug. Red LED indicates readiness for use. PTC (Positive temperature coefficient) element prevents overload, plugged in tool will not automatically restart. After cooling down, the AC wall plug should be disconnected briefly to reset the adapter. Modern design with holes for storing bits. Foldable tool rest provides a secure place for keeping the MICROMOT tool ready for use.
NO 38 706

MICROMOT AC Adapter NG 5/E

Tool and accessories not included.

This workstation with electronic speed control comes in a compact Noryl casing (the material is heat resistant, recommended for transformers) and has a capacity of 5.0A at 16V no load and 12 Volt under load = 60VA (DC). Primary supply at 110 – 120V. The thyristor electronic control (with feedback) allows for optimum tool speed and high torque at low speeds.

The workstation offers three polarized sockets for MICROMOT machines, so that three different tools can be plugged in at a time. In addition the unit features one pair of sockets for standard banana plugs with 5/32" (4mm) diameter. It provides a master switch for turning off the transformer without needing to unplug. The red LED indicates "ready". A PTC (positive temperature coefficient) element guarantees protection against overload, the plugged in machine will not restart automatically.
After cooling down, the AC wall plug should briefly be unplugged to reset the adapter. The unit comes in a very compact and practical design with storage holes for insert bits and cutters with shafts of 3/32" and 7/64" (2.35 and 3mm). The foldable tool rest keeps the MICROMOT tool ready for being used and standing by safely.

NO 38 704

DM/036240 Design Patent All rights by PROXXON

Pensander PS 13

This superfine sander with linear sanding motion (versus rotary or orbital) operates at 8,000 strokes per minute with a 3/32" (2.5mm) stroke. It is ideal for surfaces, slots and tight corners. Included are four sanding attachments with straight shanks and 4 with angled shanks (four different shapes per shank style) as well as 3 sheets of pre-profiled adhesive sanding pads. The sheets are 180, 240 and 400 grit with 5 of each shape per sheet.

NO 28 594

Replacement Sandpaper for the PS 13

Three sheets, each with 20 pads (5 each of the four shapes, adhesive)

NO 28 822	180 grit
NO 28 824	240 grit
NO 28 826	400 grit

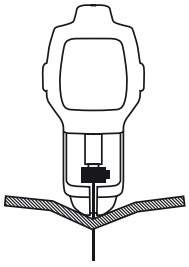
Note:

An AC adapter of at least 12 – 18V DC and 1.0A is required. We recommend PROXXON power supplies NG 2/S or NG 5/E. The electronic speed control on the NG 5/E unit allows the selection of different speeds for different applications and materials.

Jig Saw STS 12/E

For curved cuts in wood, corrugated boards, plastics and non-ferrous metals. Also ideal for gourd carving.

12 VOLT



This very lightweight and powerful 12 volts machine is ideal for curved cuts in wood up to 3/8" (10mm), circuit boards up to 7/64" (3mm) and non-ferrous metals up to 3/32" (2.5mm) thickness. Its weight makes it easy to handle and thus allows for precise control of the cutting action. The specially balanced powerful permanent magnet motor with electronic speed control ensures variable speeds between 2,000 – 5,000 strokes/ min., stroke: 15/64" (6mm). With additional, rounded foot for cuts on rounded surfaces and clean interior cuts. Is exchanged for the normal saw table by unscrewing a screw. Ideal for gourd carving. Includes 2 saw blades (coarse and fine).

NO 28 534

NOTE:

For operating these units we recommend PROXXON MICROMOT power supplies NG 2/S and NG 5/E or other power supply units with a minimum capacity of 2.0 A (24 VA).

Jig Saw Blades. Special steel.

Pitch of 1/16" (1.5mm), teeth ground & set. Usable on hard & soft woods, plywood, fiberglass reinforced sheets as well as various plastics. Ideal for tight curves and clean cuts. For use with jig saws STS 12/E and SS 115/E.

NO 28 054 Pack of 2

Jig Saw Blades. HSS.

Tooth pitch of 3/64" (1.06mm), with teeth set & ground. Usable on metals, aluminium and softer alloys, fiberglass, Plexiglass and insulating materials. For use with jig saws STS 12/E and SS 115/E.

NO 28 056 Pack of 2

PROXXON MICROMOT System

Power and precision also when wet grinding.
Includes keyless chuck (capacity 1/64" – 1/8", 0.3 – 3.2mm).

Precision Drill Grinder FBS 12/EF

For precision drilling, milling, sanding, polishing, brushing, rust removal, engraving and cutting.
Includes keyless chuck (capacity 1/64" – 1/8" (0.3 – 3.2mm). A precision ball bearing minimizes spindle side play. Spindle lock button for bit changing eliminates the need for spanners. Recessed spindle head for inserting MICROMOT steel collets (see page 4). Special, balanced, low noise DC motor with high life expectancy. Variable speed control with feedback effect (high engine power in the lower revolutions area). Housing of glass fibre-reinforced POLYAMIDE.
Technical data:
Direct voltage 12 – 18V. Maximum power consumption 100W. Speed 3,000 – 15,000rpm. Length 7.3" (185mm). Weight 1lb (450g). We recommend the use of MICROMOT transformers of at least 2.0A (see page 14).
NO 28 462

20mm MICROMOT standard collar.
Efficient forced ventilation cooling for extended periods of use without power loss.
Balanced DC special motor. Powerful, with high life expectancy.
Speed control with feedback effect for speeds of 3,000 – 15,000rpm.
12 VOLT
PROXXON

Note:
For operating this unit we recommend PROXXON MICROMOT power supplies NG 2/S and NG 5/E or other power supply units with a minimum capacity of 2.0 A (24 VA).

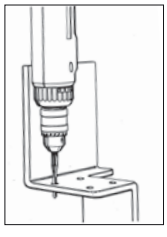
MICRO Screwdriver MIS 1, complete with 16 bits

Designed for industrial use.
The MIS 1 is the ideal tool for torques up to 18 in-lbs. It is preferred over the compressed air types because of less costly running expenses, but also for its quietness and cleanliness. The highly flexible cord makes it easy to use.

With pre-selectable torques of 0.26 - 1.48 lbs ft (0.35 - 2.0Nm).
Small, light and easy to handle. An ideally positioned rocker switch provides on/off/reverse. A RÖHM chuck facilitates acceptance of all bit shanks of up to 6.5mm (also for standard 1/4" bits). Housing of glass fibre-reinforced POLYAMIDE. Complete with 16 inserts of chrome molybdenum steel.
Technical data:
Direct voltage 12 – 18V. Maximum power consumption 50W. Torques of 0.26 - 1.48 lbs ft (0.35 - 1.0Nm) (the sixth stage bypasses the clutch and yields approx. 1.48 lbs ft (2Nm)). Length 8" (200mm). Weight 415g. We recommend the use of MICROMOT mains adapters of at least 2.0A.

DM/023329 Design Patent All rights by PROXXON

NO 28 690



Note:
The MICRO Screwdriver MIS 1 is eminently suitable to cut threads!

- Slot: 1/64"x1/16"/ 1/64"x5/64"/1/64"x3/32" (0.3 x 1.5 / 0.35 x 2.0 / 0.4 x 2.5mm)
- Philips: Size 0 and 1
- Torx: T6, T8, T10
- Allen key, internal: 3.0 - 3.5 - 4.0 - 4.5 - 5.0mm
- Allen key, external: 1.5 - 2.0 and 2.5mm

The MICROMOT System – Standardized collars and adapters allow for attaching useful accessories in no time to all of our rotary tools.

All our rotary tools have the same 4/5" (20mm) standard collar. This is why mounting them to our drill stand, universal holders or other is done in seconds which increases the versatility of these high-performance tools tremendously and makes working with them even more fun!

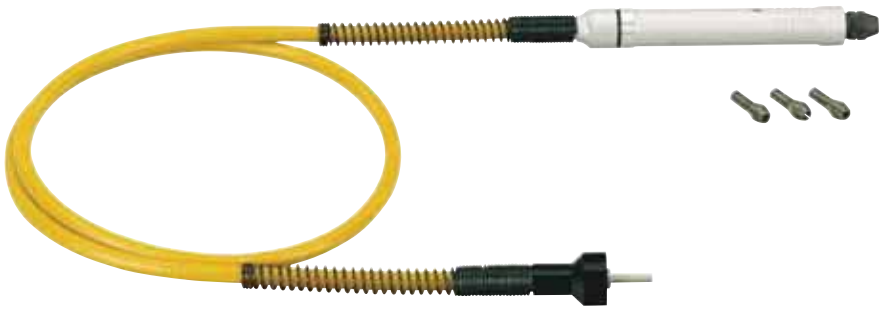
FBS 115/E
FBS 12/EF

IBS/E

MM 50, 50/E, 50/EF

High performance Flexishaft

Flexishaft MICROMOT 110/P – with triple ball bearings for speeds up to 25,000rpm.



Two ball bearings in the turned light aluminum hand piece and one in the drive end prevent bits from chattering. The highly flexible shroud and core effortlessly transmit power without heating up even when bent tightly.
Anti-kink springs at the grip and drive end. The flexishaft comes with 6 MICROMOT steel collets in sizes 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.4, 3.0 and 3.2mm). The drive shaft is 7/64" and so either fits our 7/64" steel collet or our chuck.

N0 28 620

MICROMOT Flexishaft 110/BF

As described above, but with 1/64" – 1/8" (0.3 – 3.2mm) keyless chuck. Practical when working with different shaft diameters.

NO 28 622

PROXXON MICROMOT System

MICROMOT drill stand made of die-cast aluminium parts. With CNC-machined guides and fits. A world of difference.

NEW

MICROMOT drill stand MB 200

Head with dovetail guides can be tilted through 90° (scale ring available). Enables bevelled drilling and versatile milling operations.

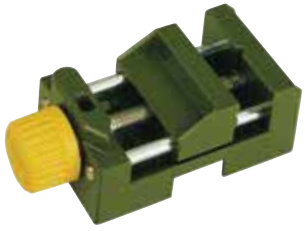
Geared rack and pinion feed with return spring allowing effortless and sensitive operation. Practical drill depth scale with adjustable limit stop (maximum travel 1 1/2" (40mm)). With standard 4/5" (20mm) collar for MICROMOT drilling and milling devices. With solid, hard chromium-plated steel column 11" x 4/5" (280 x 20mm), throat capacity (column inside to centre of tool) 5 1/2" (140mm).

Plane-milled table 8 11/16" x 4 3/4" (220 x 120mm) with parallel limit stop and scale. Drilled, tapped holes for securing the MICRO compound table KT 70 and holes to fix the drill stand itself are also provided. Weight 2.2kg.

NO 28 600

Machine vice MS 4

Die-cast zinc.
With three machined sides. The slot fits the adjustable fence of the drill stand MB 140/S and bench drill TBM 220.
Horizontal and vertical V-slots in jaw. Jaw width 2" (50mm) and height 2/5" (10mm). Maximum clamping width 1 11/32" (34mm).



NO 28 132

MICROMOT drill stand MB 140/S

Offers a sensitive feed set-up via drive disc and ball bearing system.
Throat capacity (column inside to centre of tool) 5 1/2" (140mm) with pinch screws for simple height adjustment. Travel 1 3/16" (30mm). Also with standard 4/5" (20mm) collar. The mill/drill collar tilts through 90° in both directions. Other technical data related to table and column are the same as for the above mentioned drill stand MB 200.

NO 28 606

Footswitch FS

This attachment frees your hands for easy on/off operation. To be used for all machines with a maximum power consumption of 5/8hp (500W). The switch has a housing of glass-fiber-reinforced nylon. The connect-ing cord is 3ft. 21" (250cm) in length and the output cord is 19.5" (50cm). Ideal for both portable and stationary machines. If you are working with our 12V hand-held machines, the Footwitch FS is connected to the transformer.

NO 38 700

FMZ

DM/057503 Design Patent All rights by PROXXON

Precision Vice FMZ with integrated clamp

Rotates in all directions. Made of die-cast zinc. Easily clamps to workbenches and tables of up to 2 3/8" (60mm). Alternatively, use 2 standard screws to secure to the work surface. Ball and socket: rotates in all directions (even downwards). 3" (75mm) jaws with protective covers (for delicate workpieces). Maximum clamping width 2 3/16" (70mm). Weight 3 1/2 lbs (1.6kg).

NO 28 608

FMS 75

DM/057503 Design Patent All rights by PROXXON

Precision Vice FMS 75

As detailed above, but without clamp. A strong suction cup facilitates instantaneous grip to any smooth, flat surface.

NO 28 602

UHZ

DM/057265 Design Patent All rights by PROXXON

Universal Holder UHZ. Rotates in all directions. Made of die-cast zinc.

Easily clamps to workbenches and tables of up to 2 3/8" (60mm). Alternatively, use 2 standard screws to secure to the work surface.

NO 28 610

Protective cover for hand-operated MICROMOT machines with standard 4/5" (20mm) collar

For work with saw blades, cutting discs, milling bits, grinding tools, steel brushes and polishing tools. Maximum useable tool diameter 7/8" (22mm). Easy to mount.

NO 28 944

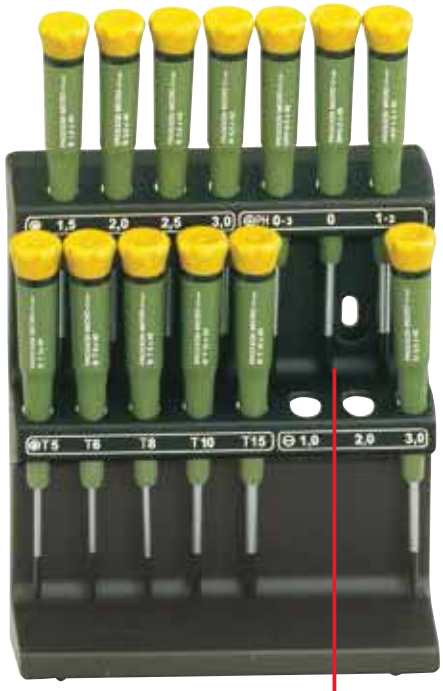
MICRO Screwdrivers

Miniature screwdrivers for electronics, cameras, jewelry, mechanics and model builders.

Each driver has a fixed place in the practical holder. May be used as desktop stand or attached to wall. Shafts of high alloy Nickel-Chrome-Molybdenum (SAE 8660) for maximum hardness and toughness. Chromed with brinelled tip. The ergonomically formed plastic handles are oil and impact resistant. The revolving top and finger mold improve ease of use.

NO 28 148 15 pieces in a stand

- Slot: .04" x 1.6", .08" x 1.6", .12" x 1.6", (1.0 x 40, 2.0 x 40, 3.0 x 40,)
- Phillips: PH 0-3 x 1.6", PH 0 x 1.6", PH 1-2 x 1.6" (PH 0-3 x 40, PH 0 x 40, PH 1-2 x 40)
- Torx: T 5 x 1.6", T 6 x 1.6", T 8 x 1.6", T 10 x 1.6", T 15 x 1.6" (T 5 x 40, T 6 x 40, T 8 x 40, T 10 x 40, T 15 x 40)
- Allen key: 1.5 x 40, 2.0 x 40, 2.5 x 40, 3.0 x 40 (metric)



Designated spot for each item in the practical holder. May be used as desktop stand or affixed to a wall.

MICROFLAM Burner MFB/E – with piezo lighter.

For soldering, removing alu solder, brazing, heating of work pieces, baking and tinning. Ideal for model-building, electronics, jewelry design and repairs, dental laboratories, stained glass. The removable foot ensures stability on the worktop. Individually controllable gas and air supply. For finest flames and temperatures up to 2,192 °F/ 1,200 °C.
The tank contents of 50cc is sufficient for approximately 60 minutes operation with normal flame. For safety reasons the torch is delivered with-out gas.

NO 28 146

PROXXON MICROMOT System

Selected sets for various applications in industrial and dental quality.

Glass working

4-piece glass working set.
2 diamond grinding bits and 2 silicon carbide grinding bits. For engraving, grinding or frosting glass. Diamond bit 1: ball ø 1/32" (1.0mm), diamond bit 2: ball ø 5/64" (1.8mm), silicon carbide bit cone 5/64" / 1/6" x 13/64" (3/2 x 5mm), and bullet 5/64" / 7/64" x9/32" (2/2.5 x 7mm).
All shanks ø 3/32" (2.35mm).
NO 28 920

Modeller's set

13-piece set for model makers. For cutting, grading, milling, polishing and drilling. 1 fine milling bit each of 3/32"(2.3mm) ball shape and cylinder shape. One white corundum grinding bit each of 13/64" (5.0mm) ball shape and cone shape. One micro drill each of 3/64" and 3/32" (1.0mm and 2.3mm). 5 separating discs ø 7/8" (22mm). One ø 3/32" (22mm) saw blade and ø 2.35mm arbor.
NO 28 910

Drill chuck or collet?

Drill chucks provide more convenience to quickly change the tools when working with shafts of varying diameters (e.g. HSS drills as per DIN 338). However, because of their technical setup, they have a few drawbacks compared to collets: Less clamping force and higher concentricity tolerances. If high precision is necessary, then working with MICROMOT steel collets is a must (also refer to the note on page 4).

Complete polishing set

10-piece complete polishing set
For polishing metal, glass, precious metals, porcelain and plastic. Consisting of 3 felt polishing bits (cylinder, cone and wheel shapes), 3 silicon polishing bits (bullet, cylinder and disc shape), cotton polishing disc, chamois buffing wheel and polishing paste. Includes mandrel.
NO 28 285

Holders for bits and cutters

Holder for bits and cutters
For the clean storage of micro drills, grinding bits, brushes and other rotating tools with shaft diameters of 3/32" - 1*8" (2.35 - 3.2mm). Without bits and cutters.

NO 28 359 2 pieces

MICROMOT steel collet set

Triple slit and hardened. 1 each of 1/32" - 1/16" -5 /64" - 3/32" - 7/64" - 1/8" (1.0 – 1.5 – 2.0 – 2.4 – 3.0 and 3.2mm). With clamping nut and holder for storage (see note at left).
NO 28 940

Three-jaw steel drill chuck

For all prepared MICROMOT devices. Advantageous when working with different shafts. Capacity 1/64" - 1/8" (0.3 - 3.2mm).
NO 28 941

Rasp cutter with wolfram carbide burrs

Unrivalled for sculpting, cleaning and smoothing wood and fibre glass. Extremely sharp and easy to handle: The material can be removed with control and without physical effort. High stability and easy to clean with a Bunsen burner. Also for use on rubber, foam and silicone. Rpm range: 5.000 – 20,000. Shanks ø 1/8" (3.2mm). Not for use on metal!

Ball nose cylinder	5/16" x 1/2" (7.5 x 12mm)	**NO 29 060**
Cone	5/6" x 1/2" (8 x 12mm)	**NO 29 062**
Taper	3/4" x 1/8" (4 x 19mm)	**NO 29 064**

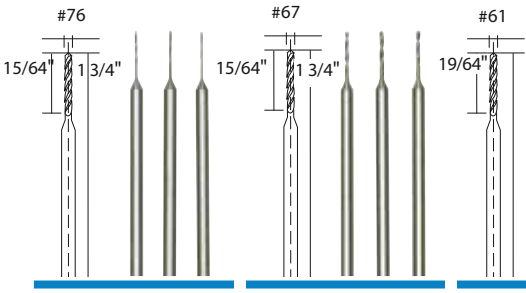
Note:
Ideal for wood cutters: a rasp disc made of the same material in combination with the MICROMOT long neck angle grinder LWH/E. See page 5.

Bits and cutters for MICROMOT drills and mills of industrial and dental qual

Rotational speed for spiral drills of HSS and tungsten carbide in rpm												
Drill	Wood		Aluminium		Brass		Steel		Stainless Steel		Plastics	
Ø	HSS	TC	HSS	TC	HSS	TC	HSS	TC	HSS	TC	HSS	TC
0.5	20000	23000	35000	60000	25000	40000	15000	30000	9000	22000	19000	33000
1.0	12000	17000	22000	45000	15000	25000	8000	18000	5000	10000	11000	20000
1.5	9000	12000	14000	30000	10000	15000	5500	13000	3500	9000	8000	15000
2.0	7000	9000	11000	23000	8000	12000	4000	9000	3000	8000	6000	10000
2.5	6000	7000	9000	19000	6000	10000	3500	7500	2500	7000	5000	8000
3.0	5000	6000	7500	15000	5000	8000	3000	6500	2000	6000	4000	7000
3.5	4000	5000	6000	13000	4500	7000	2500	5500	1500	4500	3500	6000
4.0	3000	4500	5500	10000	4000	6000	2000	4500	1000	3000	3000	5000

The specified rotational speeds are approximate values for spiral drills made of HSS and tungsten carbide. They must be appropriate for the material of the workpiece. The use of coolant is recommended for aluminium, brass, steel and stainless steel. Plastic can be cooled with compressed air to prevent the drilling chips from fusing. The hardness of derived timber products varies distinctly, therefore only an approximate value can be specified. The harder the wood, the lower the rotational speed!

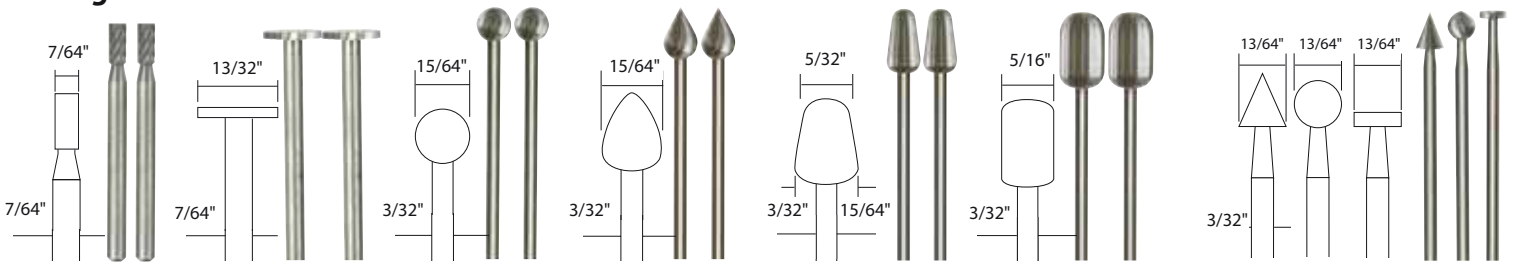
HSS drill bits



NO 28 864 NO 28 852 NO 28 8

Tungsten Vanadium Micro Twist Drills. Manufactured centricity, providing breakage safety and long lifetime. 3/32" (2.35mm). Work speeds: soft materials approx. 8,

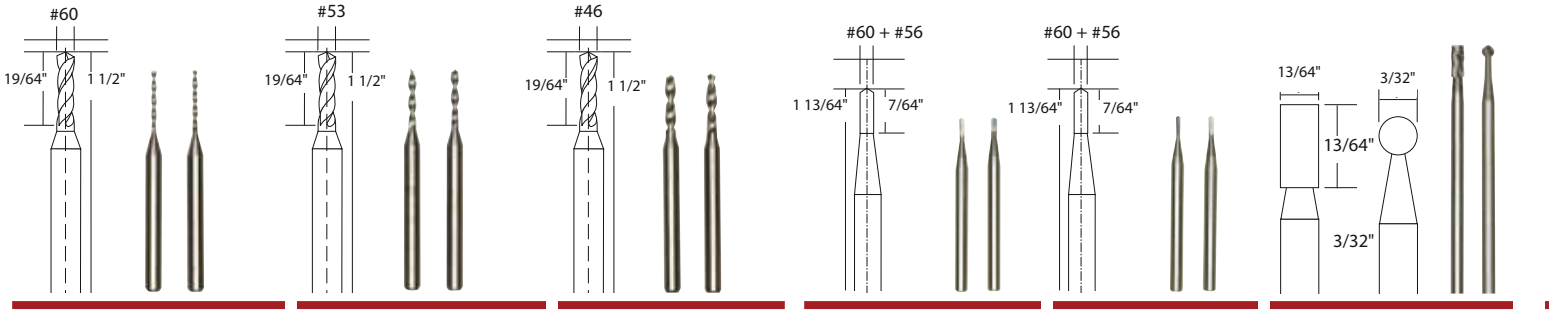
Milling bits



NO 28 722 NO 28 727 NO 28 725 NO 28 724 NO 28 723 NO 28 726 NO 28 720

Tungsten Vanadium Milling Bits. Selected tungsten vanadium steel. Purposely made of stable construction with head and shaft out of a single blank. The precise flutes ar shanks 3/32" or 7/64" (2.35 or 3.0mm). For use on hard and soft woods, NF and precious metals, as well as plastics and plaster of paris. Ideal for milling, routing, shaping, profili

Tungsten carbide drills and milling bits



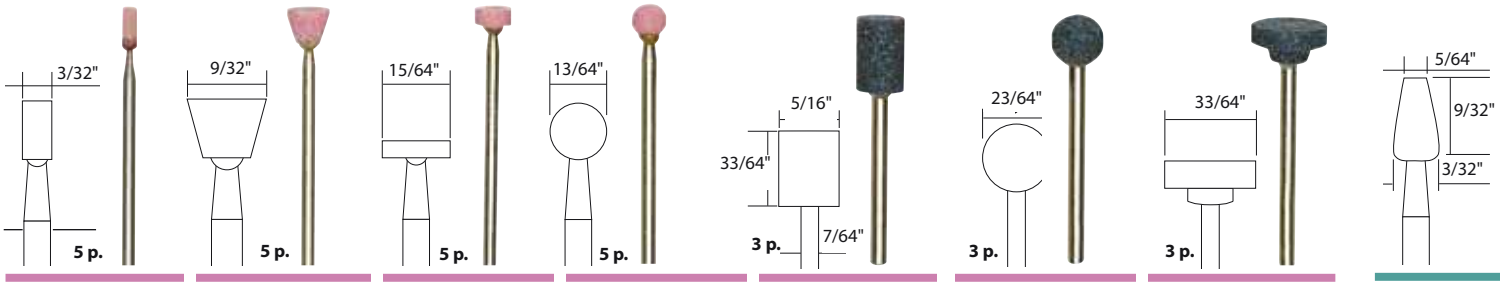
NO 28 324 NO 28 326 NO 28 328 NO 28 320 NO 28 321 NO 28 750

Tungsten Carbide Micro Drills
With ideal cutting angle of 6°. Especially for drilling in glass, porcelain, ceramics, marble (also semi-precious stones) and other hard stones. All shanks Ø 7/64" (3mm).

Tungsten Carbide Spear Drills. For drilling, cutting and separating fiberglass reinforced plastic, thermo-setting plastic, non-ferrous metals, also for drilling into pearls, corals, etc. All shanks Ø 3/32" (2.3mm).

Tungsten Carbide Milling Cu
dimensions. Ideal for technical curely when milling.

Grinding bits

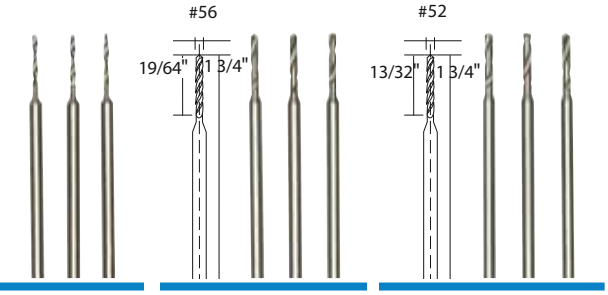


NO 28 774 NO 28 778 NO 28 776 NO 28 772 NO 28 781 NO 28 782 NO 28 783

Aluminum-Oxide Mounted Points. Bits made from high quality base materials of consistent hardness. Various shapes for widest possible range of applications. Use on especially hard materials such as cast iron, unhardened steels, non-ferrous metals, hard metal alloys, welded joints, rivets and rust. Ideal for sharpening, deburring and general purpose grinding. Accurately dimensioned shanks Ø 3/32" (2,35mm) or Ø 7/64" (3,0 mm) for highest con-centricity.

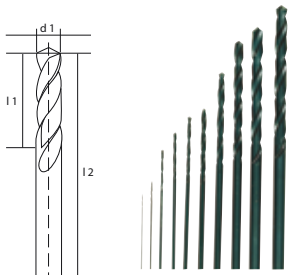
NO 28 270
Silicon Carbide M
monograms), ceran
hard steels. Contain

ity.



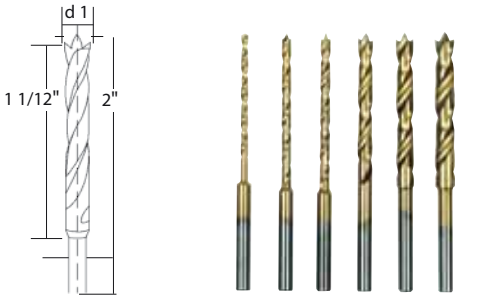
354 NO 28 856 NO 28 858

d from one-piece blanks in tungsten vanadium steel for highest con- For drilling metal, non-ferrous metals, plastic and wood. All shanks Ø 000 rpm, hard materials approx. 3,000rpm.



NO 28 874

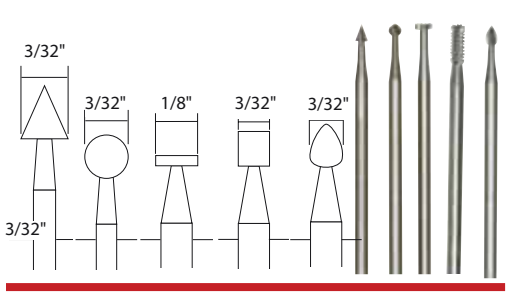
HSS Twist Drill. For drilling in steel, sheet metal, cast iron, non-ferrous metals, wood, plastics etc.. One each Ø 3/256", 1/32", 5/128", 3/64", 2/32", 10/128", 1/10", 15/128", 1/8" (0.3, 0.5, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.2mm).



NO 28 876

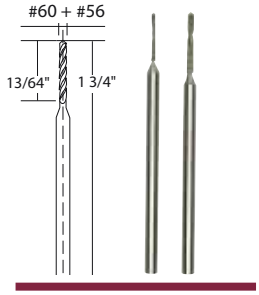
HSS Twist Drill Set with brad point. 1/64"-5/64"-3/32"-1/8"-9/64"-5/32" (1.5-2.0-2.5-3.0-3.5-4.0mm). The titanium nitrate coating reduces friction and increases life expectancy.

Diamond tools



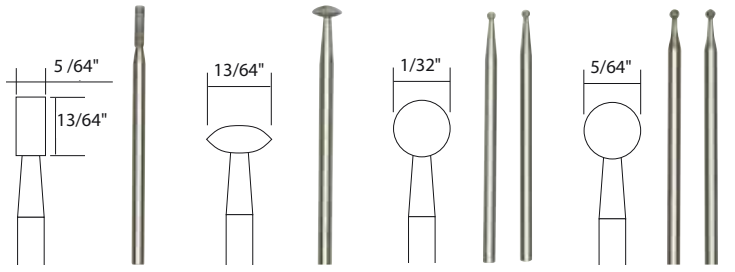
NO 28 710

nd optimal concentricity ensure best life expectancy. All ng and slotting.



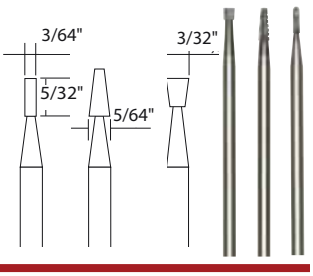
NO 28 255

Diamond Twist Drills. With natural diamond dust for cleaning out holes in pearls, coral, turquoise and other precious stones. Shanks Ø 3/32" (2.35mm).



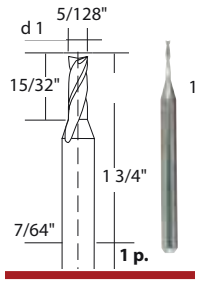
NO 28 240 **NO 28 250** **NO 28 212** **NO 28 222**

Diamond Burs. Shape, grind, finish and engrave with precision! These high-quality, long-wearing diamond burs offer the hardness of an even diamond coating over stainless steel to provide uniform cutting on a variety of materials such as glass, ceramics, porcelain, stones, non-ferrous metals, steel (even chrome-cobalt alloy), etc. All shanks Ø 3/32" (2.35mm).

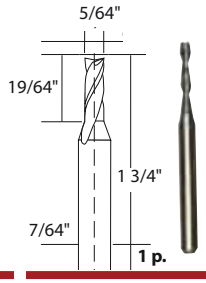


NO 28 752

tters. For working on extremely hard materials: steel, cast steel, non-ferrous metals, plastics. Vibration-free milling of high accuracy work, engraving or milling circuit-boards. Shanks Ø 7/64" (3mm) or Ø 3/32" (2.35mm). Note: Please make sure to clamp work piece se-



NO 28 758



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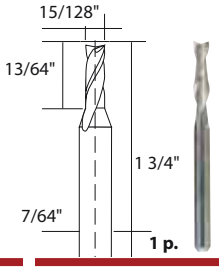
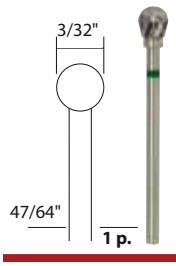
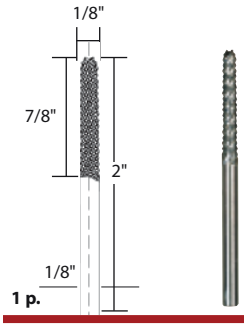


NO 28 761



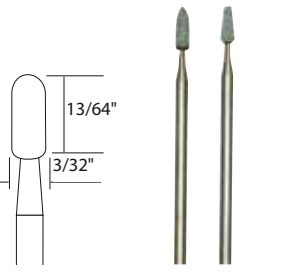
NO 28 760

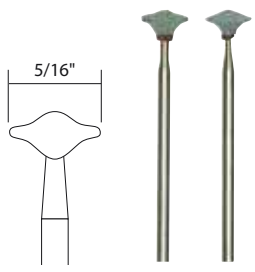


NO 28 757

Rasp Cutter

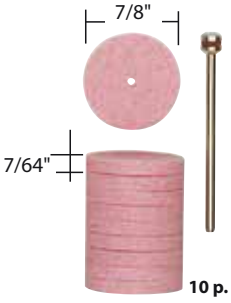
For cutting and milling tiles, stoneware, wood and plastics. Spare cutter for FEX. Shank Ø 3/32" (2.35mm).





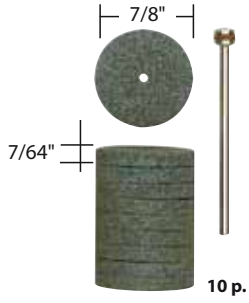
NO 28 272

ounted Points. Designed for engraving and frosting of glass (finishing nics, porcelain and stones. Also for use on cast steel, cast iron and other s fine particles of grit for consistent hardness. All shanks Ø 3/32" (2.35mm).



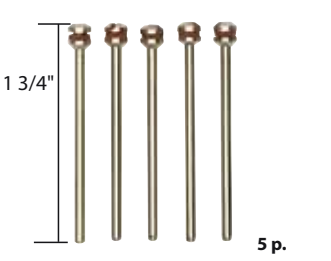
NO 28 302

Aluminum-Oxide and Silicon Carbide Grinding Wheels



NO 28 304

Wheels for free-hand and stationary grinding and sharpening. Use on hard materials such as cast iron, unhardened steels, non-ferrous metals, hard metal alloys, welded joints, rivets and rust. Shank of mandrel: Ø 3/32" (2.35mm).



NO 28 815

Spare Mandrels. for all rotating accessories of the MICROMOT-system without shank, all man-drels Ø 3/32" x 1 3/4" (2.35 x44mm).

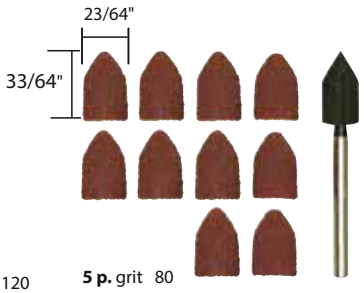
Selected cutting, sanding and polishing bits for professional use and longe

Sanding

5 p. grit 120
5 p. grit 150

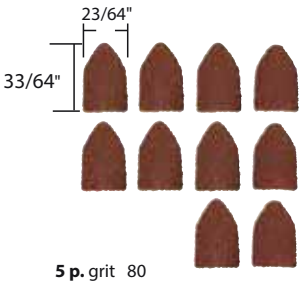
10 p. grit 120
10 p. grit 150

NO 28 982 **NO 28 983**



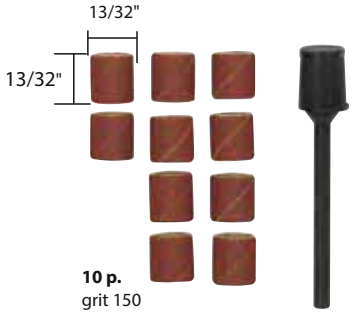
5 p. grit 80
5 p. grit 150

NO 28 987



5 p. grit 80
5 p. grit 150

NO 28 989

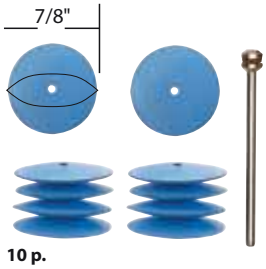


10 p.
grit 150

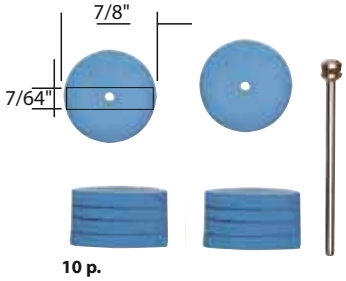
NO 28 980

Sanding Discs, Bands and Caps. Made of standard compounds of tough consistency and different grits for different sanding/finishing stages. Use for furniture refinis metal, steel, welded joints and castings. Ideal for surface and shape sanding, smoothing of surfaces, edges, even inside curves and tough to reach areas. All shanks of pad ar

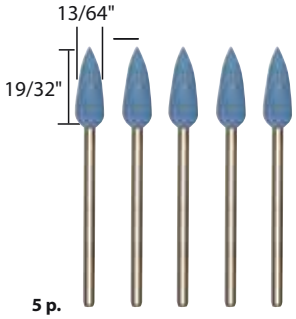
Fine polishing



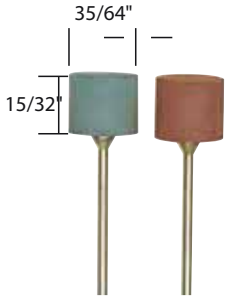
10 p.

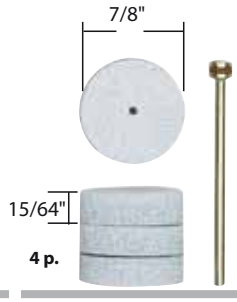


10 p.



5 p.





4 p.

NO 28 293 NO 28 294 NO 28 288 NO 28 295 NO 28 296

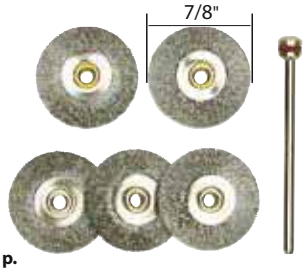
Silicone Polishers Rubberized abrasives, used for surface smoothing and polishing of precious metals, non-ferrous metals, hardened metals, tensile steels as well as glass, porcelain, wood, rubber and plastic. Remove fine burrs and scratch marks left by grinding and sanding. All shanks Ø 3/32" (2.35mm).

Silicon-Carbide Polishers Polishers made of high-quality silicon-carbide in a conformable bonding of high resistance (no rubber). Used especially on precious metals, in mold and die production, fine mechanics, etc. Ideal for smoothing and polishing cut edges of Plexiglas. The edges will become clean and sleek. All shanks 3/32" (2.35mm).

Cleaning, polishing

2 p.

2 p.



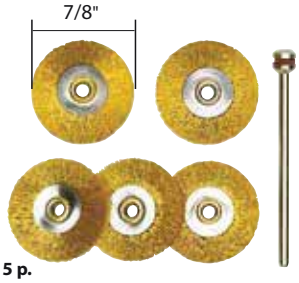
5 p.

NO 28 951 NO 28 953 NO 28 952

Carbon Steel Bristle, Cup and Wheel Brushes. Use on metal, non-ferrous and precious metal, casting, plastic, semi precious stone, stone and wood for deburring, polishing, rust removal, matting, paint and lacquer or cleaning electrical components. The flexibility of the wire makes the brush very conformable, so that also contoured shapes are easy to work on. All shanks: Ø 3/32" (2.35mm).

2 p.

2 p.

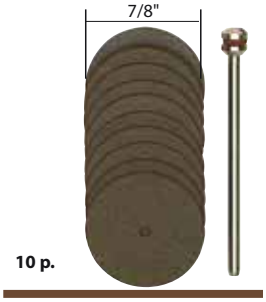


5 p.

NO 28 961 NO 28 963 NO 28 962

Brass Bristle, Cup and Wheel Brushes. Ideal for surface cleaning on brass and brass alloys, copper, precious and semi-precious metals, stainless steel, semi-precious stones, plastic and wood. Acid resistant and electrically neutral, thus suitable for working with electronic components. All shanks Ø 3/32" (2.35mm).

Cutting discs



10 p.

50 p.

5 p.

25 p.

10 p.

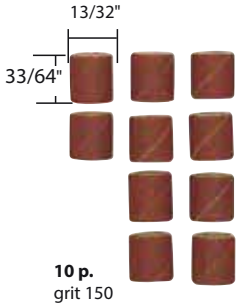
50 p.

NO 28 810 NO 28 812 NO 28 820 NO 28 821 NO 28 808 NO 28 809

Cut-Off Wheels. Synthetic resin bonded aluminum-oxide cut-off wheels for cutting metal, non-ferrous metal, alloys, stainless steel, wood, plastics and some softer stones. Note: The cut-off wheel is designed for cutting on its outside edge only! Do not use the face of the wheel for grinding! All mandrel shanks Ø 3/32" (2.35 mm). Wheels in 7/8" x 1/32" or 1 1/2" x 1/32" (22 or 38 x 0.7mm).

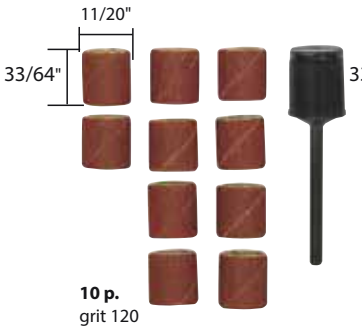
Aluminium Oxide with reinforcement The c (22 x 0.8 and 38 x 1.0mm). Nearly unbreakable, making stainless steels, NF metals, and even wood and plastic

est life expectancy!



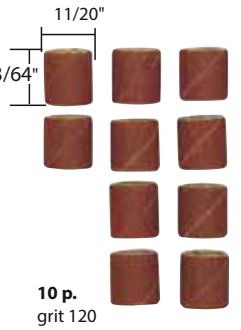
10 p.
grit 150

NO 28 981



10 p.
grit 120

NO 28 978



10 p.
grit 120

NO 28 979

hing, removing rust, and multiple sanding/ finishing jobs on wood, plastic, leather, non-ferrous
nd drum carriers Ø 7/64" (3mm).

NO 28 282
Nylon Fleece Brushes For cleaning, polishing, light sanding, matt finishing and deburring of steel, stainless steel, gold, silver and titanium. One each brush coarse and fine. Shanks Ø 3/32" (2.35mm).

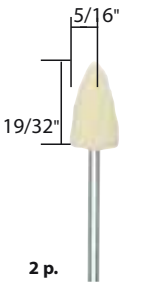
grit 120

NO 28 984
Flapwheel Conformable flapwheel for grinding and polishing flat or contoured surfaces and working inside round work pieces. Most effectively used as finishing sander after heavier surface sanding and material removal is completed. Shanks Ø 7/64" (3mm).

grit 120

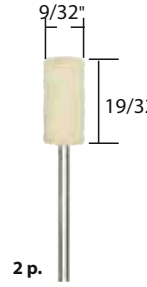
NO 28 985

High polishing



2 p.

NO 28 801



2 p.

NO 28 802

2 p.

NO 28 803

10 p.

NO 28 798

Felt Polishing Tips. Assorted shapes for fine finishing jobs on work pieces of metal, non-ferrous metal and plastic as well as for cleaning those tough-to-reach areas. Shank Ø 3/32" (2.35mm).

2 p.

NO 28 297

2 p.

NO 28 298

2 p.

NO 28 299

High Gloss Polishing Set. Cotton, suede and felt buffing. Used with polishing compound for high gloss polishing of metal, non-ferrous metal, ceramics, porcelain. Also for polishing of plastics and lacquered woods. All shanks Ø 3/32" (2.35mm).

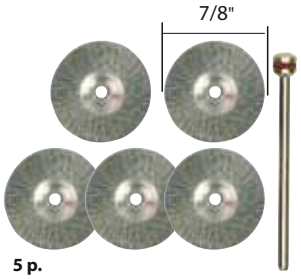
NO 28 292
Polishing Compound
This universal solid-compound is used with cotton, felt, or suede polishing wheels or tips for high gloss polishing.

2 p.

NO 28 955

2 p.

NO 28 957



5 p.

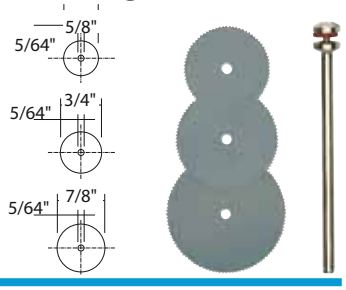
NO 28 956

Stainless Steel Brushes, Cups and Wheels. For cleaning, brushing and cleaning stainless steel. Remove cinders and scales on stainless steel welding seams and soldering points. Can also be used on aluminium and non-ferrous heavy metal. Shaft Ø 2.35.

Note:

Permit the brushes to work only with gentle contact pressure and at the recommended rotational speed! If the pressure is too high, the individual wires will be bent too strongly and afterwards straighten up again due to the centrifugal force. This excessive flexural fatigue stress of the wires on their seating promotes the notch effect. They are prone to breakage!

Cutting wood



NO 28 830
Metal Cutting Blades Spring steel metal cut-off blades for cutting non-ferrous metals, plastic and wood. Ideal for model-building. Wheel: each one Ø 5/8", 3/4" and 7/8" (16, 19, 22mm), 0.1mm thick, shank of mandrel: Ø 3/32" (2.35mm).

5 p.

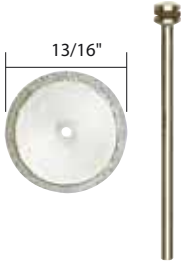
NO 28 818

25 p.

NO 28 819

utting discs are available in 7/8" or 1 1/2" x 1/32" g it usable to remove stock. Will cut alloyed, standard and cs. Arbor shaft 2.35mm.

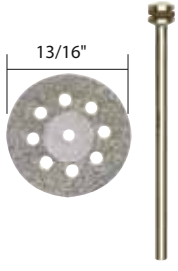
Cutting ceramics



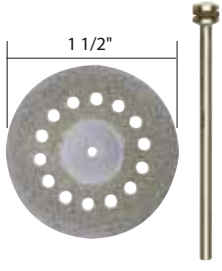
NO 28 840

NO 28 842

Diamond Cut-Off Wheels for cutting very hard and brittle materials. Only 3/128" (0.6mm) thick, wheel Ø 13/16" (20mm) or 1 1/2" (38mm), shank of mandrel: Ø 3/32"(2.35mm).



NO 28 844



NO 28 846

Diamond-Coated Cutting Discs with cooling holes For cutting, grinding and deburring. Same application as described on the left. Less heating up due to cooling holes. No burn marks! Shaft ø 2.35.

PROXXON MICROMOT System

For free modelling in Styrofoam.
No "crumbling" as when working with knife and sandpaper.

Hot Wire Cutter THERMOCUT 12/E

12 VOLT

Cutting wire 11.4" x 20 gauge (285 x 0.85mm) can be formed by hand or with pliers to cut any shape or profile.
Top pivotal fixture.
Extendable wire fixture. Maximum extension 7.9" (200mm).
Variable cutting temperature.
Polarity-protected system plug for MICROMOT transformers.
Design Patent
All rights by PROXXON

Note:
Styrofoam is an inexpensive material and very environmentally friendly when compared to other materials and can be easily cut with a hot wire.

For free hand cutting in thick Styrofoam for diorama model railroad construction of any shape.

Note:
With a bit of practice, creating landscapes even for finished railroads and streets is easy. It is also no problem to make corrections to model landscapes.

Other application areas:
Architecture modelling, prototype construction, for designers, decorators, or for fine work on construction insulation. And of course for classical model building.

Stable frame with pivotal fixture at the top and extendable lower wire fixture. Maximum extension 7.9" (200mm). Maximum work piece height 5.9" (150mm).
Variable cutting wire temperature control. With a little practice, you can achieve perfect cuts depending on the material density and thickness at medium temperatures and with moderate pressure. Heat up time is 1 second. Comes with 5 shapable cutting wires.

Technical data:
12 V. 60 W. 50/60 Hz. Variable cutting wire temperature ranges from approx. 300 – 660 °F (150 – 350 °C). We recommend the use of our MICROMOT transformer NG 2/S for operation.
NO 27 082

Replacement Cutting Wire

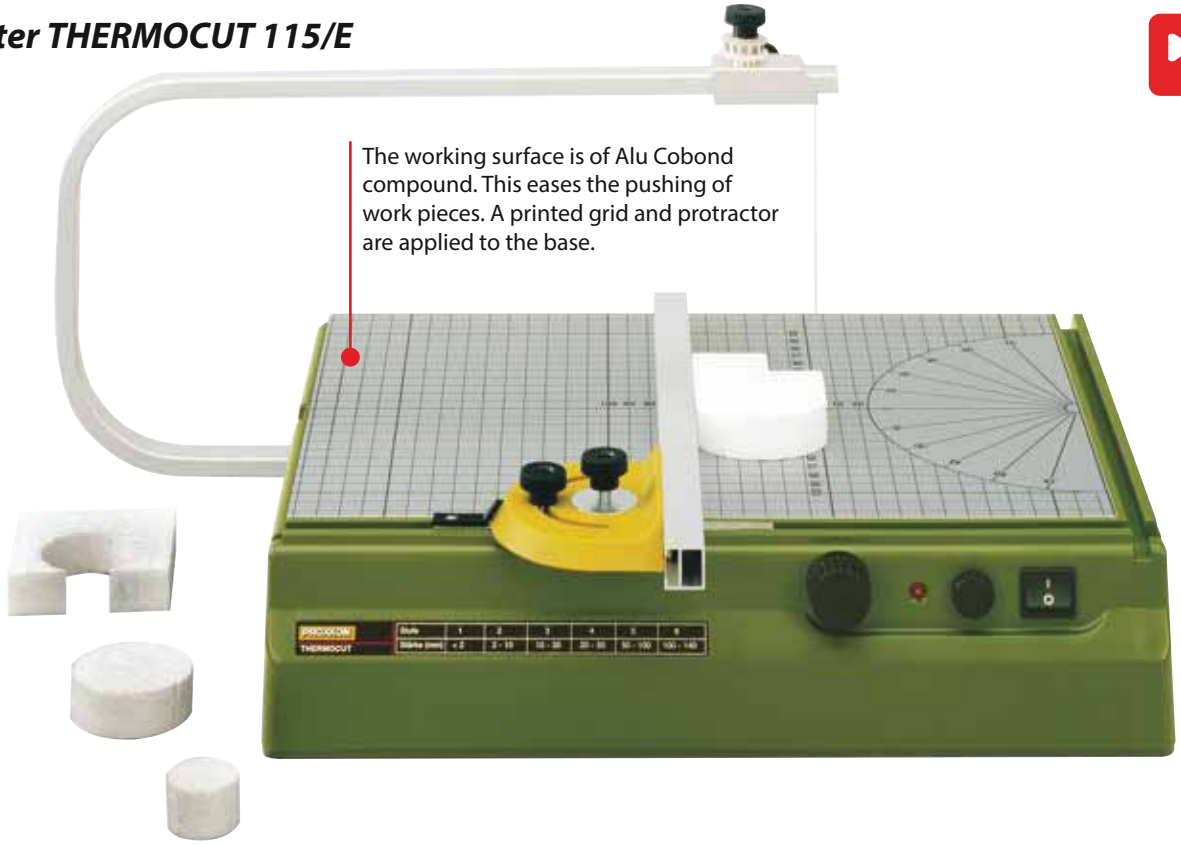
For the THERMOCUT 12/E. Easy to bend, therefore ideal for modelling.
NO 28 082 10 pieces

PROXXON MICROMOT System

Cuts Styrofoam and thermoplastic materials fast !
For hobbyists, architects, designers and artists.

Hotwire Cutter THERMOCUT 115/E

000050224-0002 Design Patent All rights by PROXXON


The working surface is of Alu Cobond compound. This eases the pushing of work pieces. A printed grid and protractor are applied to the base.

Ideal for architects, designers, decorators, artists and teachers. For building architectural models, prototypes as well as classic model railroad, plane and boat items.

The large table with 15 11/32" x 11" (390 x 280mm) ensures smooth and easy movement of the work piece. The printed grid and protractor assist with division and cutting. The solid aluminum overarm has a 13 3/4" (350mm) throat and offers 5 1/2" (140mm) in height. The holder and wire coil (one spool of wire 98ft., 0.008" diameter is included) may be shifted and adjusted along the overarm to enable miter cutting. An LED indicates operation and thus reminds you not to touch the hot wire to prevent burnt fingers (the wire heats to maximum in less than 1 second).

NOTE :
The correct temperature, being material and thickness dependent, is learned from experience. Profiles are ideally cut at lower temperatures and while applying less cutting force.

Technical data:

Cutting wire temperature	210 – 390 °F (100 – 200 °C)
Transformer secondary max	10V at 1.0A
Volts	110 – 120V AC 60 Hz
Weight	6.6 lb (3kg)

NO 37 080

Double function fence with lockable feed bar.

Spare Cutting Wire for Hotwire Cutter THERMOCUT. Made of NiCr 8020.

Spool diameter	Ø 15/16" (24mm)
Spool thickness	5/16" (8mm)
Bore diameter	Ø1/4" (6.5mm)
Wire size	Ø 0.008" x 98ft (Ø 0.2mm x 30m)

NO 28 080

Crosscuts are achieved by means of a simple, yet efficient solution: secure drawing-pin to table with tape, it serves as a fixed center.

PROXXON MICROMOT System

Centre distance 250mm and 40mm swing. Variable speed control covering 1,000 – 5,000rpm.

MICRO woodturning lathe DB 250

Turning in miniature is a pleasing hobby. One can make glasses, cups, saucers, vases and columns for a doll house. In model trains, one can make lighting masts, windows, tanks. Limbs for marionettes and hundreds of classical miniature turning tasks may be carried out with ease. The electronic speed control assists in the lower range in a 'semi-automated' painting process.

Technical data:
Motor 110 – 120V AC, centre distance of 10" (250mm), 1 3/5" (40mm) swing. 1" (25mm) swing over support. 1/8 hp (100W), 60Hz. Variable speed control covering between 1,000 and 5,000rpm. Headstock spindle bore of 13/32" (10mm). Tailstock travel 1 3/16" (20mm).
Includes 6 collets 5/16", 1/8", 5/32", 15/64", 5/16", 13/32" (2 – 3 – 4 – 6 – 8 – 10mm), drive center, live center and face plate.
NO 37 020

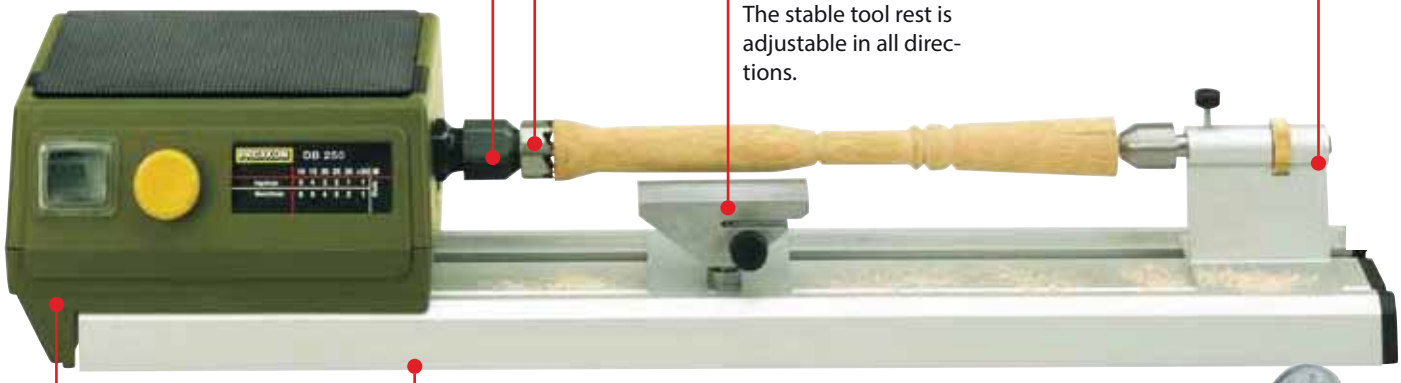
DM/047502 Design Patent All rights by PROXXON

Ball bearing spindle is bored through at 13/32" (10mm). For series production of small parts.

Square carrier with back centre and 13/32" (10mm) shaft.

Tailstock with quill travel.

The stable tool rest is adjustable in all directions.



Powerfull, high torque drive with variable speed 1,000 – 5,000rpm.

Stable lathe-bed made of thick aluminum profil material.

Six collets and a face plate (for turning larger work pieces) are included.

Five piece HSS chisel set
A high quality set with the most frequently used turning tools: gouge, skew, parting tool, beading tool and scraper. Neatly packed in a wooden box.
NO 27 023

Drill chuck with sliding sleeve for the tailstock of the DB 250
Clamps up to 13/64" (5.0mm). Is inserted on the spot of the rotating back centre. The feed movement results from sliding the complete tailstock.
NO 27 028

Independent four jaw chuck for the DB 250
With individually adjustable jaws. Used to clamp asymmetrical pieces such as rectangles. The reversible jaws clamp from (1.5 – 35mm) (inside) and from 14 - 67mm (outside). The DB 250 headstock spindle of thread M16 x 1 screws directly into the chuck.
NO 27 024

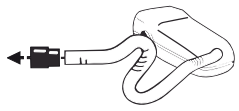
Three jaw chuck for the lathe DB 250
Used for concentric clamping. Made from steel and offering 1/16" - 1 13/32" (1.5 to 32mm) and 1/2" - 2 14/32" (12 to 65mm) when reversing the jaws. The chuck has a M16 x 1 thread for fitting directly to the DB 250 headstock spindle.
NO 27 026

PROXXON MICROMOT System

The best shaper of its class and an excellent value for your home shop.

MICRO Shaper MP 300

DM 075534 Design Patent All rights by PROXXON



MP 300 is equipped with a vacuum-adapter, which makes it easier to keep your work area clean and dust-free.

The perfect size machine for all kinds of applications, where precision is needed: delicate, detailed and precise edge forming, profiling, grooving, beveling, routing and trimming on wooden and plastic work pieces. Optimal for picture framing, cabinetry, classic model building applications (model railroads, model airplanes, doll houses), and much more.

The MP 300 convinces with its powerful performance through a dust-protected motor and belt drive. The material slides smoothly over the machined extrusion molded aluminum worktable. Cutters are fitted via triple slit high-concentricity steel collets (three collets in sizes 3/32", 7/64" and 1/8" (2.4 – 3.0 and 3.2mm) are included). Bits are easily mounted and removed using two wrenches supplied with the machine and stored in a built-in wrench-storage.The height of the bit is conveniently adjustable via a hand wheel with zero-adjustable dials (travel: 1 3/16" (30mm), 1 revolution = 3/64" (1mm), 1 division = 0.002" (0.05mm).

Technical Data:

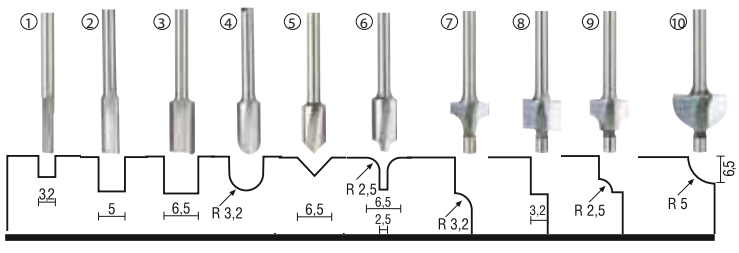
110 – 120V AC, 60Hz, 1/8hp (100W), no = 30,000rpm
Table size: 11 1/2" x 6" (293mm x 150mm)
Weight: 4.4lb (2.0kg)
Double insulated.

NO 37 050

Router Bits

Tungsten carbide wood router bits, with 1/8" (3.2 mm) shanks, inverse ground flutes and maximum speeds up to 30,000 rpm in different profiles for optimal results.

① ***Straight*** ø 1/8" (3.2mm)	**NO 29 024**
② ***Straight*** ø 3/16" (5.0mm)	**NO 29 026**
③ ***Straight*** ø 1/4" (6.5mm)	**NO 29 028**
④ ***Core box*** ø 1/4" (6.4mm)	**NO 29 030**
⑤ ***V-groove 90°*** ø 1/4" (6.5mm)	**NO 29 032**
⑥ ***Plunge*** ø 1/4" (6.5/2.5mm)	**NO 29 034**
⑦ ***Piloted*** round over R ø 1/8" (3.2mm)	**NO 29 036**
⑧ ***Rabbeting*** ø 1/8" (6.4mm)	**NO 29 038**
⑨ ***Beading*** ø 3/32" (5.0mm)	**NO 29 040**
⑩ ***Piloted cove*** ø 3/16" (13mm)	**NO 29 042**



10-piece Wood Router Cutter Set

1 piece each of the cutters offered here. Neatly packed in wooden box.

NO 29 020

Attention:
The wood router cutters offered here should only be used with working devices that have a safety mechanism.

PROXXON MICROMOT System

For perfectly straight cuts in wood, non-ferrous metal, plastics and fiberglass reinforced plastics.

Bench Circular Saw KS 115

The machine is a specialist to cut the smallest pieces, whenever working with a regular circular saw is impossible and too dangerous. The high-performance 110 – 120V motor is very quiet and has a prolonged life expectancy.
Cutting depths: in wood up to 5/16" (8mm), in plastic (also circuit boards) up to approx. 1/8" (3 mm), in non-ferrous metals up to 1/16" (1.5mm). Even fiberglass reinforced plastics can be cut with the carbide tipped saw blade (available as accessory). The machined and perfectly plane aluminum worktable in size 6 1/4" x 6 1/4" (160 x 160mm) allows for sliding the work piece easily. The housing is made of sturdy plastic (ABS) with a side door to conveniently remove saw dust.
With the included Super Cut Saw Blade Ø 2 9/32" (58mm) it is possible to cut soft wood up to 5/16" (8mm). Other saw blades, available as accessories in our program, with Ø 2" (50mm), still ensure up to 15/64" (6mm) cutting depth. Overall size approx. 10 1/4" x 7 5/8" x 3 11/64" (265 x 195 x 85mm). Weight approx. 4 lb (1.8kg).
NO 37 006

Your circular saw can only be efficient, if the used saw blade is appropriate. We offer a selection of high quality saw blades for many different materials.

Diamond Blade

50mm diameter (10mm arbor). With 1/64" (0.5mm) layer of class „D107" diamond for cutting ceramics porcelain, tiles, stone as well as circuit boards.
No 28 012

Tungsten Carbide Saw Blade

Ø 2" (50mm) x 1/64" (0.5mm), arbor 13/32" (10mm), fine toothed, 80 teeth. The blade is ideal for cutting fiberglass sheets, non-ferrous metal, miniature moldings, plastics, and other „difficult-to-cut" materials.
NO 28 011

Crosscut Blade Super-Cut

Ø 2 9/32" (58mm) x 1/64" (0.4mm), arbor 13/32" (10mm), 80 teeth. Ideal for use on hard and soft wood, as well as plastic. For fast, clean cuts. The 80 teeth are alternately set and sharpened. For superior cutting power!
NO 28 014

Tungsten Tipped Saw Blade

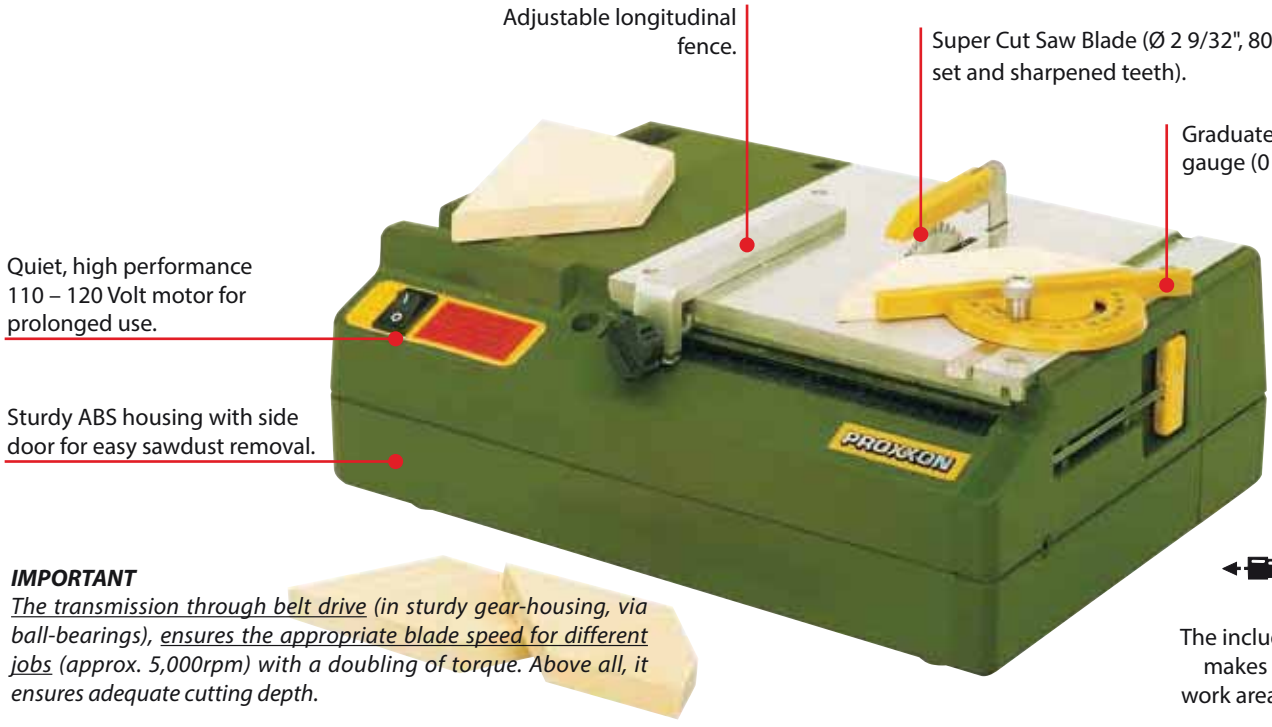
Ø 2" x 3/64" (50 x 1.1mm), arbor 13/32" (10mm), 10 teeth. Ideal for quickly cutting hard and soft woods, aluminum and circuit-boards.
NO 28 016

Ø 2" x 3/64" (50mm x 1.1mm), arbor 13/32" (10mm), 20 teeth. For extremely clean cuts of balsa, plywood. Can also be used for cutting circuit boards and POLYCARBONATE.
NO 28 017

High-Alloy Special Steel Saw Blade

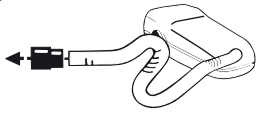
Ø 2" (50mm) x 1/64" (0.5mm), arbore 13/32" (10mm), fine, 100 teeth. Alloy holding a high proportion of tungsten, vanadium and molybdenum for an even structure, high hardness and long lifetime. Fine-toothed. For very fine cuts in non-ferrous metals (aluminium, brass, copper). Also suitable for cutting compound materials like PC cards, and sawing wood and plastics.
NO 28 020

NOTE:
A larger circular saw (model FET) is described on page 35.


Adjustable longitudinal fence.
Super Cut Saw Blade (Ø 2 9/32", 80 individually set and sharpened teeth).
Graduated miter gauge (0 – 90°).
Quiet, high performance 110 – 120 Volt motor for prolonged use.
Sturdy ABS housing with side door for easy sawdust removal.
PROXXON

DM/040788 Design Patent All rights by PROXXON

IMPORTANT
The transmission through belt drive (in sturdy gear-housing, via ball-bearings), ensures the appropriate blade speed for different jobs (approx. 5,000rpm) with a doubling of torque. Above all, it ensures adequate cutting depth.



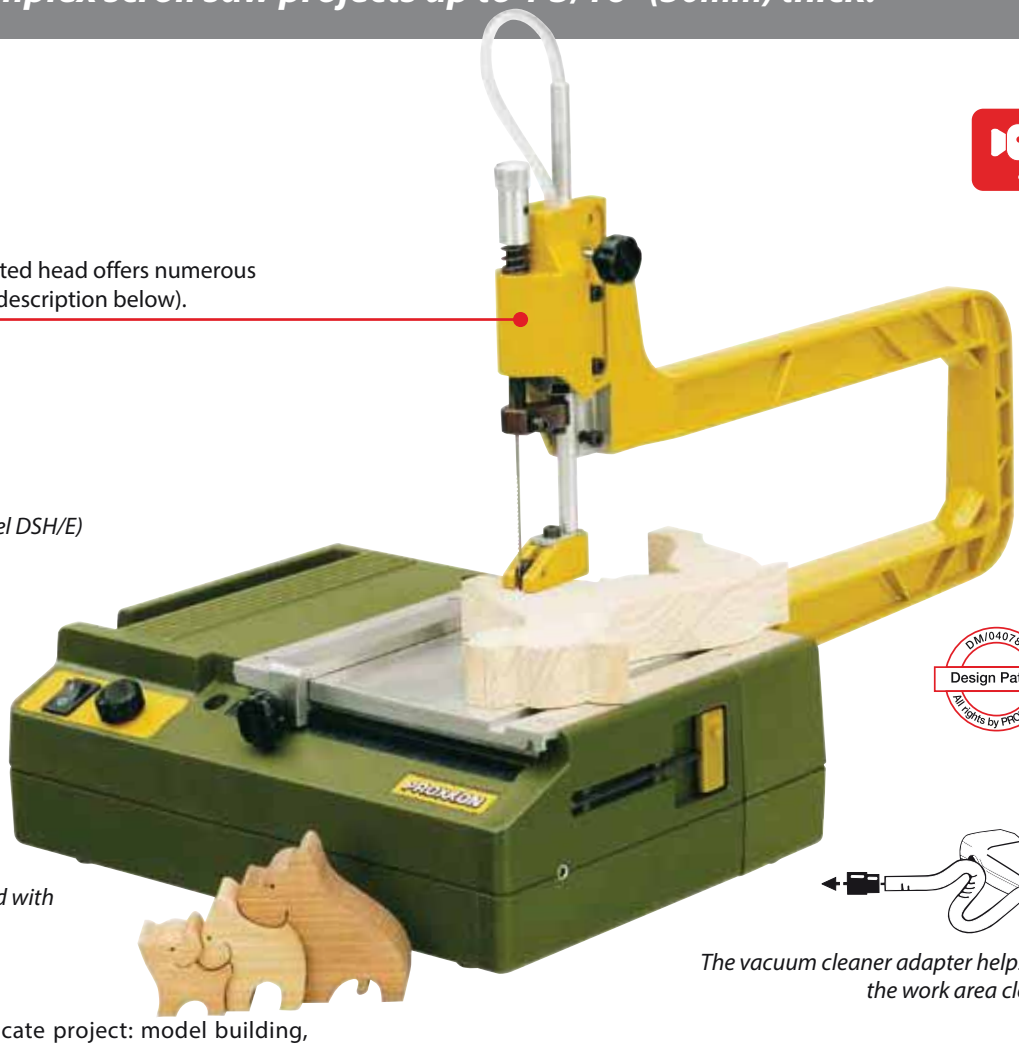
The included vacuum-adapter makes it easier to keep your work area clean and dust-free.

PROXXON MICROMOT System

A saw without competition in its size – a wonderful machine for complex scroll saw projects up to 1 3/16" (30mm) thick.

Scroll Saw DS 115/E

Adjustable patented head offers numerous advantages (see description below).



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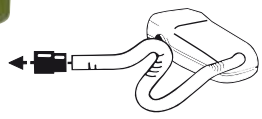
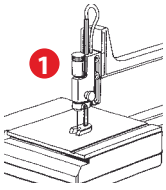
NOTE:
Also consider the bigger scroll saw (model DSH/E) on page 34.

NOTE:
All described saw blades can also be used with our bigger scroll saw DSH/E (page 34).

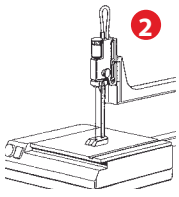


The vacuum cleaner adapter helps keep the work area cleaner.

This is the ideal machine for the delicate project: model building, toy manufacturing and precision work. It cuts soft wood (e.g. bass wood) up to 1 3/16" (30mm), hard wood up to approx. 25/64" (10mm), plastic (including circuit boards) up to approx. 5/32" (4mm) and non-ferrous metals up to 5/64" (2mm) with standard scroll saw blades.
The machine has a very stable ribbed die-cast aluminum saw frame with 11 13/16" (300mm) throat. The blade guide is equipped with an integrated blower.
The patented head-part is height-adjustable in three positions and offers numerous advantages:



1 the lifetime of the saw blade is tripled after shortening it twice (teeth in the middle part of the saw blade are finally used, too).



2 With the head in the lowest position, working with a blade shortened to 2 23/64" is even more precise.

The machined worktable of die-cast aluminum has a size of 6 19/64" x 6 19/64" (160 x 160mm) and is equipped with an adjustable longitudinal stop and graduated miter gauge (0 – 90°). The ABS plastic body provides a very practical sliding door on the right side of the housing for the removal of saw dust. The saw is powered by a 110 – 120V motor (85W) for prolonged use, low noise performance and even supported by a quiet and wear-resistant toothed belt drive, running in a ball bearing assembly. The machine offers an electronically controllable stroke rate from approx. 150 – 2,500strokes/min. **NO 37 088**

'Super-Cut' scroll saw blades. High quality steel for extended use and prolonged cutting capacity. Standard version without pin.

Hard and soft woods, plastic, Perspex and soft non-ferrous metal.

Coarse-toothed blades, No. 9: 14 TPI
NO 28 116 5.1"x1/16"x1/52" (130x1.50x0.48mm) 12 pces

Standard-toothed blades, No. 5: 17 TPI
NO 28 117 5.1"x3/64"x1/64" (130x1.20x0.38mm) 12 pces

Fine-toothed blades, No. 3: 34 TPI
NO 28 118 5.1"x1/32"x1/64" (130x0,77x0.34mm) 12 pces

Hard materials such as steel and PERTINAX.

Standard-toothed blades, No. 5: 36 TPI
NO 28 112 5.1"x1/32"x1/64" (130x0.85x0.4mm) 12 pces

Fine-toothed blades, No. 3: 41 TPI
NO 28 113 5.1"x1/32"x1/64" (130x0.75x0.36mm) 12 pces

Very fine-toothed blades, No. 1: 50 TPI
NO 28 114 5.1"x1/32"x1/64" (130x0.6x 0.3mm) 12 pces

PROXXON MICROMOT System

A precision device for fine sanding work and minor material correction. Variable speed 1150 – 3600 rpm (250 – 800 m/min).

Disc Sander TG 125/E

Comes with c-clamp to quickly and securely fasten sander to workbench either vertically or horizontally.

Suction channel with adapter to connect a vacuum cleaner.

5"(125 mm) sanding disc. Adhesive sanding discs can be easily removed after use.

Table can be adjusted to incline 50° downward and 10° upward. With miter gage and c-clamp for horizontal and vertical clamping.

DM/021954 Design Patent All rights by PROXXON

For all types of wood, steel, non-ferrous and precious metals, plastics (also Plexiglas and fiber glass).
Powerful, vibration-free running due to a powerful and balanced DC motor. Housing made of fiber glass reinforced POLYAMID. Aluminum table, adjustable to incline 50° downward and 10° upward; with miter gage. Sanding disc with affixed silicon film. This surface ensures easy removal of self-adhesive sandpaper. Two additional square silicon sheets ensure that used discs can be stored and reused as necessary. Can be mounted horizontally and vertically to a table or workbench with the included c-clamp.
Also includes an adapter to attach a vacuum cleaner for dust free working, as well as 2 each sanding discs 80, 150 and 240 grit.

Technical data:

Speed	Variable speed 1150 – 3600rpm (250 – 800m/min).
Disc Diameter	5" (125mm) sanding disc
Max. Sanding Height	off the table 2.46" (62.5mm)
Table Size	3.9" x 5.5" (98 x 140mm)
Sanding height	Size 11.8" x 5.5" x 6.3" (300 x 140 x 160 mm)
Volts	110 V. 140W. 50/60 Hz
Weight approx.	6.6 lbs (3kg)

NO 37 060

Adhesive Sanding Discs for TG 125/E

Industrial quality. For sanding of soft and hard wood, chip boards, fiber boards, non ferrous metals, steel, plastics, cork, rubber and minerals. Dia. 5" (125 mm). One square silicon sheet for storage and reuse of used sanding discs is included.

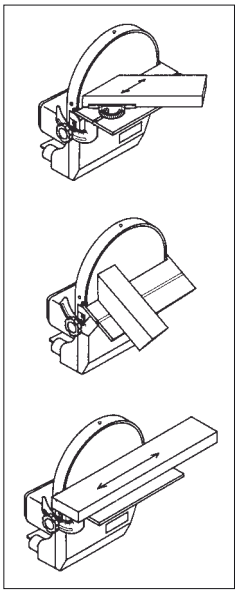
NO 28160	80 grit	5 pieces
NO 28162	150 grit	5 pieces
NO 28164	240 grit	5 pieces

PROXXON MICROMOT System

With electronically adjustable speeds from 820 to 2,460 ft/min for optimal control when working on delicate materials. Ideal for wet sanding, too.

Disc Sander TSG 250/E

For sanding, polishing, de-burring and beveling of hard and soft wood, non-ferrous metal, steel, plastic (also Plexiglas and fiberglass reinforced plastics), cork and rubber. Sands long edges, end sections, radii, miters, and by turning work piece over, accurate flat surfaces at right angles. The electronic speed control ensures optimal results on multiple types of material.



Sturdy construction:
Main body of ribbed die-cast aluminum (no steel tube or sheet metal construction) with machined aluminum die-cast work table. The table tilts 15° inwards and 45° outwards (a scale facilitates accurate adjustment) and has a slot for the adjustable miter gauge. Disc provided with a silicon film ensuring that affixed sanding discs can be removed effortlessly after use. Two additional square silicon films for storage and reuse of used sanding discs are included.
A simple chart indicates the recommended speeds on different materials.

Technical data:

Speed	820 to 2,460ft/min (belt drive 7.3 : 1 reduction ratio)
Disc Diameter	9 27/32" (250mm)
Max. Sanding Height	5 5/16" (135mm)
Table Size adjusts	10 13/16" x 4 1/8" (275 x 105mm), 15° in, 45° out
Overall Size (w/o table)	3" x 11" x 9" (330 x 280 x 230mm)
Volts	110 – 120V AC, 60Hz

Comes with miter gauge and two each 80 and 240 grit sanding discs.
NO 38 060

9 27/32" (250mm) disc with machined surface with double ball bearing spindle.
Work table (10 13/16" x 4 1/8" (275 x 105mm)), adjusts 15° in, 45° out. With slot for miter gauge.
PROXXON
DM/021954
Design Patent
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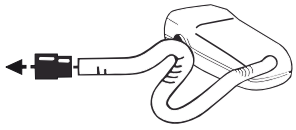


A dust collection adapter for attaching a vacuum cleaner or dust extractor is included.

Self-Adhesive Corundum Sanding Discs for TSG 250/E

Industrial quality. For sanding soft and hard woods, chipboards, fibre boards, non-ferrous metals, steel, plastic, cork, rubber and minerals. Ø 9 27/32" (250mm). Includes silicone film for storing used sanding discs.

NO 28 970	80 grit	5 discs
NO 28 972	150 grit	5 discs
NO 28 974	240 grit	5 discs

Self-Adhesive Silicone Carbide Sanding Discs for TSG 250/E

For sanding non-ferrous metals, steel, glass, PC cards, plastics and ceramics. Can also be used in combination with the optional coolant kit. Ø 9 27/32" (250mm). Includes silicone film for storing used sanding discs.

NO 28 976	320 grit	5 discs

Self-Adhesive Silicone Film for easy sanding disc replacement Ø 9 27/32" (250mm)

For retrofitting older disc sanders TG 250/E (production before 2008 with serial no. up to 7825). Is attached to the sanding disc. Ensures that affixed sanding discs can be removed effortlessly after use. With 4 square silicone films for storage and reuse of used sanding discs.
NO 28 968

PROXXON MICROMOT System

Supersilent with electronic stroke control.

Scroll Saw DSH/E

Fig.1

Fig.2

Practical quick tension release lever (Ideal for frequent inside cuts).

Design Patent

DSH/E is equipped with a vacuum-adapter, which makes it easier to keep your work area clean and dust-free.

This is the perfect machine for scroll saw relief projects, intarsia, precision mechanics, model building, toy and puzzle making, designs, architectural models, and restoration of antiques. Also, ideal for schools and training centers.

Even with its superior cutting abilaty, the DSH/E emits only a quiet hum while cutting wood up to 50mm (1 1/2"), plastic up to 30mm (13/16"), and non-ferrous metals up to 10mm (13/32"). The DSH/E also cuts effortlessly plexiglass, fiberglass, foam, leather, or cork. The free swinging saw blade holder takes standard saw blades with pin ends. However, blades without pin ends may also be clamped safely by means of a toggle screw. The slender saw arm allows for a clear view to the back of work piece, and a quick tension release lever (Fig. 1) is ideal for frequent inside cuts. The dust blower with adjustable nozzle ensures clear sight of the work piece and cutting line. The machine base is made from solid cast iron with rubber feet minimizing vibrations (may also be bolted down). The table is extremely stable with a large work area of 14 5/32" x 10 1/2" (360 x 270mm) and can be tilted 45° for miter cuts (Fig. 2). Vacuum cleaner and dust extractor are side-mounted allowing for a dust-free environment. The machine comes with 5 coarse and 5 fine saw blades each.

Technical Data:

Volts:	110 – 120V AC, 50/60Hz
Motor:	200W powerful special motor with electronic speed control keeping stroke speed constant under any load.
Speeds:	200 – 1,400 strokes/min.
Stroke length:	3/4" (19mm)
Throat:	15 3/4" (400mm)
Cutting depth:	2" (50mm), 1" (25mm) at 45° bevel
Overall dimensions:	L 21" (53cm), W 10.5" (27cm), H 12" (30cm)
Weight:	44 lb (20kg)

NO 37 090

Standard scroll saw blades with pin ends. 127mm:

For cutting soft and hard wood, plastics as well as other soft materials and especially thicker work pieces. Coarse-toothed (10 TPI):
NO 28 741 5" (127 x 2.61 x 0.51mm) 12 pieces
For cutting thin materials, soft and hard wood as well as plastics.
Normal toothed (18 TPI):
NO 28 743 5" (127 x 1.86 x 0.24mm) 12 pieces
For cutting non-ferrous metals, glass-fibre reinforced plastics, plastics, Plexiglas and wood.
Fine-toothed (25 TPI):
NO 28 745 5" (127 x 1.76 x 0.25mm) 12 pieces

Spiral blade. 125mm long with plain ends (without pins).

These blades cut all directions and obviate the turning of the workpiece (advantageous, especially with bigger workpieces). A 1/16" (1.5mm) hole is required. Ideal for plastic, hard and soft woods.
NO 28 747 5" (125 x 1.2mm) 12 pieces

"Super-Cut" scrill saw blades without pins. 130mm

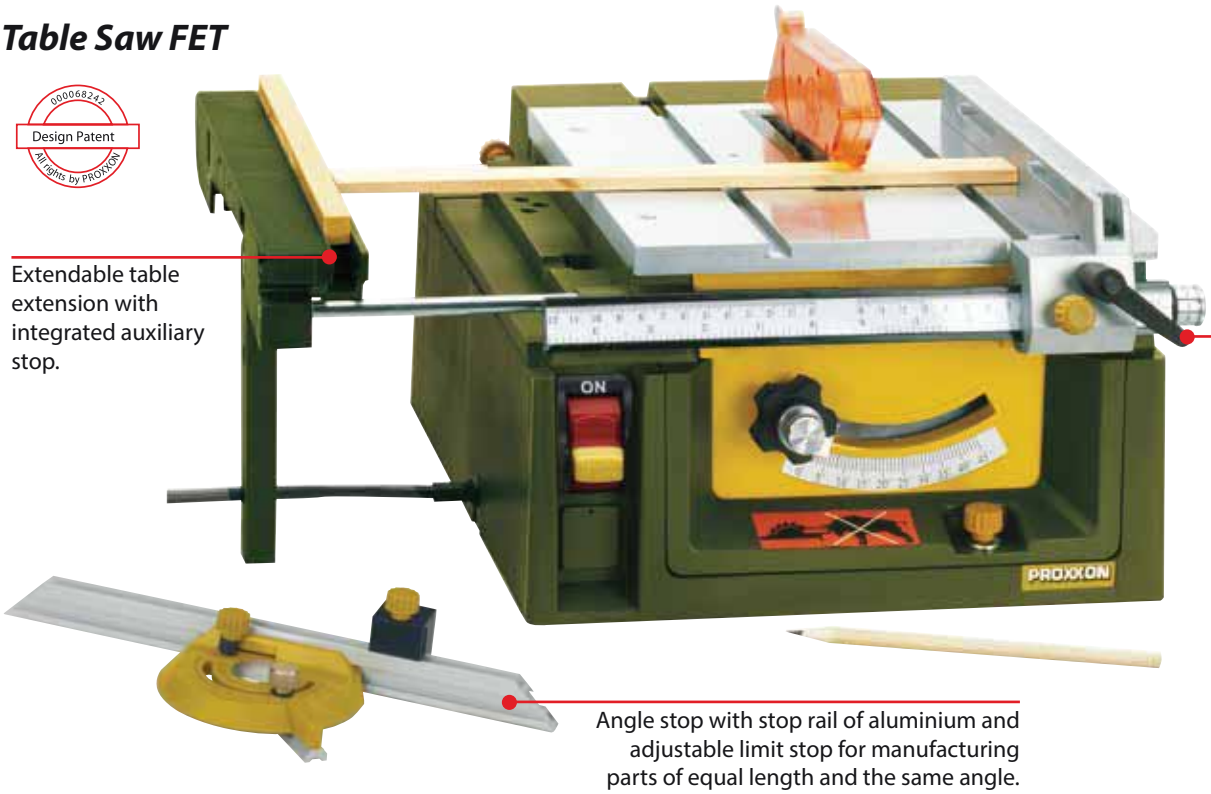
For cutting hard and soft woods, plastic, Perspex and soft non-ferrous metal.
Coarse-toothed blades, No. 9: 14 TPI
NO 28 116 5.1" (130 x 1.50 x 0.48mm) 12 pieces
Standard-toothed blades, No. 5: 17 TPI
NO 28 117 5.1" (130 x 1.20 x 0.38mm) 12 pieces
Fine-toothed blades, No. 3: 34 TPI
NO 28 118 5.1" (130 x 0,77 x 0.34mm) 12 pieces

Hard materials such as steel and PERTINAX.
Standard-toothed blades, No. 5: 36 TPI
NO 28 112 5.1" (130 x 0.85 x 0.4mm) 12 pieces
Fine-toothed blades, No. 3: 41 TPI
NO 28 113 5.1" (130 x 0.75 x 0.36mm) 12 pieces
Very fine-toothed blades, No. 1: 50 TPI
NO 28 114 5.1" (130 x 0.6 x 0.3mm) 12 pieces

PROXXON MICROMOT System

Perfectly straight cuts. The ideal machine for model building, picture- framing, dollhouses, birdhouses and other intricate projects.

Table Saw FET



Extendable table extension with integrated auxiliary stop.

Setting screw for fine adjustment of longitudinal stop by 0.004" (1/10mm).

Angle stop with stop rail of aluminium and adjustable limit stop for manufacturing parts of equal length and the same angle.

A suction connection with vacuum cleaner adapter permits clean working.

For fine mechanics, model building, mould construction, toy manufacture, architects, model carpenters and fitters.

For cutting wood, non-ferrous metals, plastics, Plexiglas, fiber-glass reinforced sheets, foam and many other materials. Stable construction because load bearing parts and plane-milled table are made of die-cast aluminium.

The micro-adjustable, precise and stable longitudinal stop provides decisive advantages: Corrections even smaller than 0.004" (1/10mm) can be made after coarse adjustment using an adjusting screw. The height is adjustable and 45° tiltable saw blade makes it possible to cut double mitres when used together with the angle stop.
Low-noise drive using DC special motor with compound belt driver. Ball-bearinged saw blade shaft. Tungsten tipped saw blade ø 3 9/64" (80mm) x 1/16" (1.6mm) x 13/32" (10mm) (24 T). Additional work piece pusher and non-slotted ABS sawing gap cover for tight tolerances between saw blade and table.

Technical data:
110 – 120V AC. 60Hz. 7,000rpm. Mitre infinitely adjustable up to 45°. Table size 12" x 12" (300 x 300mm). Cutting depth 0.04 - 5/6" (1 - 22mm). Saw blades between 2 - 3 11/32" (50 - 85mm) can be used (with 13/32" (10mm) centre hole). Weight approx. 12 lb (6kg).

NO 37 070

Crosscut Blade Super-Cut
Ø 3 11/32" (85mm) x 1/64" (0.5mm), bore 13/32" (10mm), 80 teeth. Ideal for use on hard and soft wood, as well as plastic.

NO 28 731

Carbide Tipped Saw Blade
Ø 3 9/64" (80mm) x 1/16" (1.6mm), bore 13/32" (10mm), 36 teeth
Used for balsa, plywood, hard and soft woods, POLYCARBONATE, plastic, aluminum and PC boards.

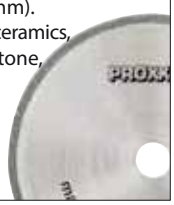
NO 28 732

Carbide Tipped Saw Blade
Ø 3 9/64" (80mm) x 1/16" (1.6mm), bore 13/32" (10mm), 24 teeth
For cutting difficult to separate materials as aluminum, hard wood, chipboard, fiberboard and plastics.

NO 28 734

Diamond Coated Cutting Blade
Ø 3 11/32" (85mm) x 1/32" (0.7mm), bore 13/32" (10mm).
For clean cuts in ceramics, porcelain, tiles, stone, PC cards.

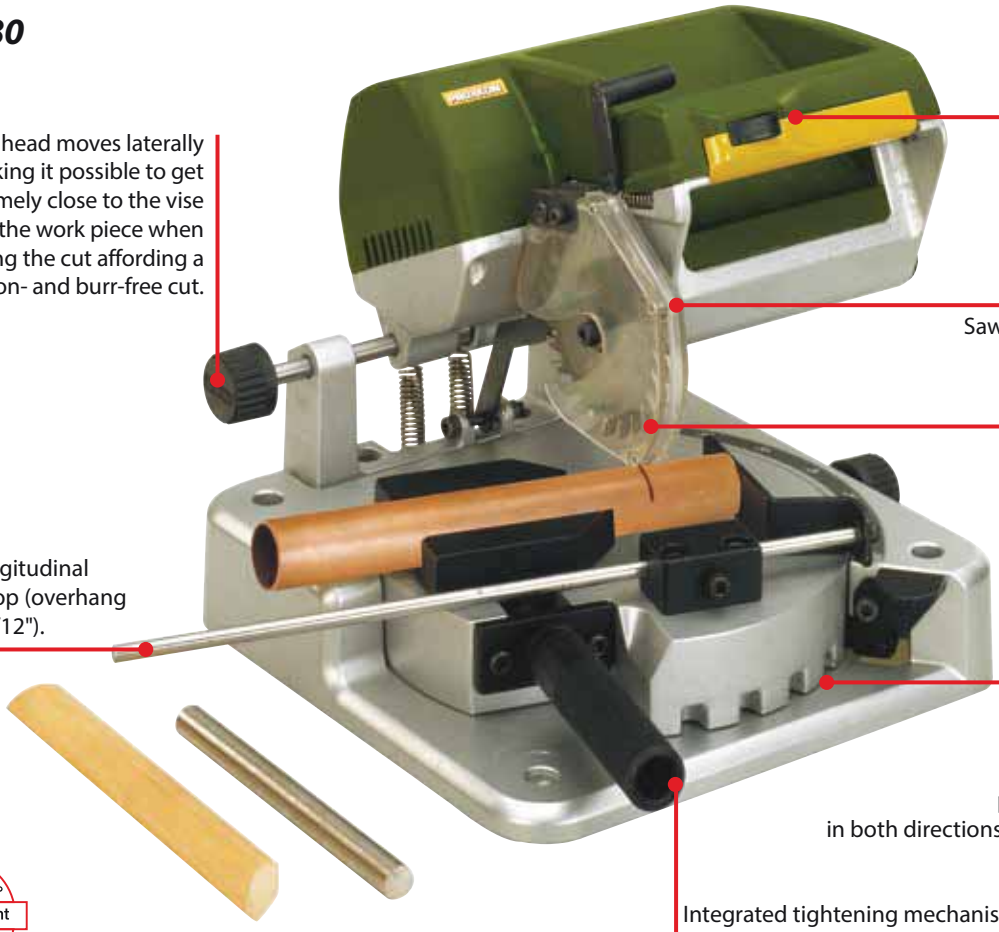
NO 28 735



PROXXON MICROMOT System

For clean and safe chop and miter cuts in non-ferrous metals, plastics and wood.

Chop and Miter Saw KGS 80



Saw head moves laterally making it possible to get extremely close to the vise holding the work piece when making the cut affording a vibration- and burr-free cut.

Ergonomically correct grip with integrated switch and saw head release mechanism.

Saw blade protection cover made from POLYCARBONATE swings up automatically.

Carbide tipped saw blade for non-ferrous metals, wood and plastics. Power transfer via quietly operated belt drive.

With longitudinal fence stop (overhang 300mm/12").

Continually adjustable (may be tightened in any position) round table made of pressure-cast aluminum swivels 45° in both directions with positive stops at 15° intervals.

Integrated tightening mechanism with self-centering clamps. V-groove for round pieces. Front side groove for clamping thin work pieces.

000050224-0002 Design Patent All rights by PROXXON

Ideal for miter cuts. Instead of swivelling the saw head, the table with clamped down work piece is turned!

By using the fence and counter-rotating the table 2x 45°, one can get the opposite angles for two equally long framing pieces by simply reversing them. Powerful, very quiet DC motor. Power transfer via belt drive. Carbide tipped saw blade 3 1/8" x 1/16" x 3/8" (80 x 1.6 x 10mm), 24 teeth.

Other technical data:
110 – 120V AC. 200W. 50/60Hz. 5,400rpm.
Base with round table of pressure-cast aluminum and CNC-machined guides and fittings.
Table area: 9" x 9" (230 x 230mm)
Weight: 12 lb (6kg)
Cutting capacity see chart.

NO 37 160

Cutting capacity at 90° (Perpendicular cut):			**Cutting capacity at 45° (Miter cut):**		
With material thickness up to (in mm and inch)	Maximum material width (in mm and inch)	Maximum round stock diameter (in mm and inch)	With material thickness up to (in mm and inch)	Maximum material width (in mm and inch)	Maximum round stock diameter (in mm and inch)
10 3/8"	65 2 9/16"		5 3/16"	36 1 13/32"	
18 11/16"	50 2"		10 3/8"	30 1 3/16"	
21 13/16"	40 1 9/16"	Ø 25 1"	15 9/16"	25 1"	Ø 20 3/4"
25 1"	25 1"		20 3/4"	18 11/16"	

Synthetic resin bonded cut-off wheel.

3 1/8" x 3/64" x 3/8" (80 x 1.0 x 10mm).
For cutting wood, steel, non-ferrous metals and plastics.
NO 28 729

Carbide tipped saw blade. 3 1/8" x 1/16" x 3/8"

(80 x 1.6 x 10mm). 36 teeth. Extremely clean cutting edges when cutting balsa wood, plywood or soft wood as well as glass-fiber reinforced plastics (GRP) because of large number of teeth. May also be used for cutting hard wood, POLYCARBONATE, plastics and aluminum. Also fits circular table saw FET.
NO 28 732

Planer DH 40

DM/059818 Design Patent All rights by PROXXON

Note:
For better planeing results, remove small amounts

Perfect for fine planeing work on soft and hard wood.

An excellent machine for fine planeing work with a particularly smooth finish for hardwood and softwood work pieces. Perfect size unit for all kinds of applications, where precision to a fraction of an inch is needed.
The unit's load bearing components are all made of die-cast aluminum, with milled seats for bearings and spindles, being essential for vibration-free, smooth and clean planeing, guaranteeing maximum stability. The triple spindled table is milled to close tolerances and can be conveniently adjusted to 0.1mm (0.008") by a large zero adjustable hand wheel on top of the housing.
The cutter shaft has two HSS reversible cutters for a particularly long service life. Replacement of the cutters is facilitated by means of a generously sized service flap.
The planer has an automatic feed unit. The work piece therefore is only pushed by hand into the feed slot for a short distance. A knurled and spring-loaded roller then draws the work piece in, thus enabling even irregularly shaped pieces of wood to be planed. After passing the cutter shaft the piece of wood is pushed out at the rear by a rubber-coated roller to protect the surface of the work piece.
The unit has a dust-protected on/off switch with restart protection in case of power supply interruption.

Technical Data:
110 – 120V AC, 60Hz, 0.2hp (150W), no = 6,000rpm

Feed speed:	14.4ft per second (4.8m/min)
Max. pass-through height:	1 37/64" (40mm)
Max. pass-through width:	3 9/64" (80mm)
Length of planing table:	9 1/8" (232mm)
Planing cutter length:	3 7/32" (82mm)
Chip decrease:	1/32" (up to 0.8mm)
Overall size:	11 x 9 x 9 1/8" (280 x 230 x 235mm)
Weight:	17.6lb (approx. 8.0kg)

Double insulated

NO 37 040

Replacement Cutters

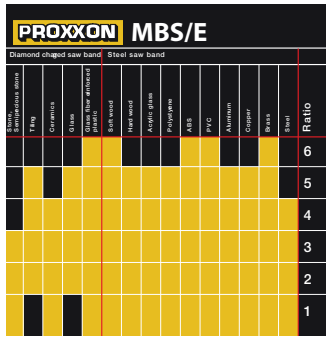
Made from HSS, 3 1/4" (82mm) long.
NO 27 042 2 pcs

PROXXON MICROMOT System

Perfect cuts in steel, non-ferrous metals, wood and plastic. Even cuts glass and ceramics with diamond blade.

MICRO-Bandsaw MBS/E

DM/016394 Design Patent All rights by PROXXON



Solid, ribbed die-cast aluminum housing (no tubular or sheet metal construction) with a sturdy machined table with slot for miter gauge. The table tilts up to 45° for accurate miter sawing. The machine has a low noise high-quality motor with belt driver for quiet and prolonged operation. Electronically controlled speeds allow for exceptionally accurate cutting without the need for subsequent finishing. A chart indicates the recommended speed for practically all materials. The blade size of 13/64" x 1/64" (5.0 x 0.4mm) is ideal for fine work and permits cutt-ing small radii.

The machine comes equipped with one band saw blade in size 42" x 13/64" x 1/64" (1065 x 5.0 x 0.4mm), 14 TPI (also available as accessory, NO 28 176).

Technical data:

Speed	395 to 820 ft/min (with feedback control)
Throat Depth	5 29/32" (150mm)
Max. work piece Height	3 13/32" (85mm)
Table Size	7 7/8" x 7 7/8" (200 x 200mm), adjustable from 0 – 45°
Volts	110 – 120V AC, 60Hz

The unit includes an adapter to connect a vacuum cleaner or dust extractor.

NO 37 172

Saw Blades for MBS/E

These high-performance band saw blades are extremely efficient and are very unlikely to break, even when being used for prolonged periods. Each band saw blade is alternately set with teeth in N-form, which are individually sharpened. This type of toothing provides oscillation-free operation of the saw blade, which is extremely important in order to obtain straight and clean cuts.

Standard Bandsaw Blade, fine toothed (24 TPI)
42" x 13/64" x 1/64" (1,065 x 5.0 x 0.4mm). Of hardened Swedish steel. Ideal for cuts in steel and brass. **NO 28 174**

As above, coarse toothed (14 TPI)
42" x 13/64" x 1/64" (1,065 x 5.0 x 0.4mm). **NO 28 176**

Extra narrow Bandsaw Blade, coarse toothed (14 TPI)
42" x 9/64" x 1/64" (1,065 x 3.5 x 0.4mm). Of special tempered steel, with induction hardened teeth. Ideal for cuts in aluminum and plastics. Extremely narrow, and thus optimal for cutting tightest curves and radii.
NO 28 180

Bandsaw Blade of bimetal for MBS/E
42" x 13/64" x 1/32" (1,065 x 6.0 x 0.6mm). Carrier belt of alloyed tempering steel, sawing teeth of wear-resistant high-speed steel. Varying teeth 10 – 14 TPI. Ideal for cutting all standard steel qualities, non-ferrous metals and stainless steel.
NO 28 172

Diamond Blade
42" x 7/64" x 1/64" (1,065 x 3.0 x 0.3mm). Ideal for cuts in glass, stone, ceramic PC cards.
NO 28 186

Blade Guide
The triple ball bearing system with feed pipe for coolant in connection with the diamond blade allows even more precise adjustment of the blade when working on glass, ceramic, stone or fiberglass reinforced plastic. Of course, the blade guide can also be used with all other band saw blades in our program.
NO 28 187

PROXXON MICROMOT System

Competent drilling of micro holes down to1/64" (0,5 mm).

Bench Drill Press TBM 115

DM/031617 Design Patent All rights by PROXXON

The matching MICRO Compound Table is described on page 41.

With extremely high rotational accuracy and optimal power transmission via belt drive for three different speeds.
The unit offers a high quality machined work table of ribbed die-cast aluminum (work table size 8 1/2" x 4 3/4" (220 x 120mm)) providing an adjustable parallel fence with scale. The solid, hard-chromed steel column is 11" high (280mm) and has a diameter of 4/5" (20mm). The powerful motor, which is built into the super stable die-cast head of the machine, runs very quiet and has a long life expectancy.
The power transmission by 3-step aluminum pulleys and flat belt provides 3 spindle speeds of 1,800, 4,700 and 8,500rpm allowing triple torque at lower speeds. The chrome feed lever has a practical adjustable drilling depth gauge.
The spindle is essentially free of play as a result of the three high quality ball bearing assemblies. It is recessed for the insertion of MICROMOT steel collets, but also threaded for attaching drill chucks with 3/8" thread. The spindle has an extremely high rotational accuracy and a 1 3/16" (30mm) feed. The quill diameter is 1 1/4" (32mm) with return spring, the throat depth (column to drill spindle) is 5 1/2" (140mm). The unit provides quick coarse height adjustment of the headstock via clamp lever. The max. height (worktable surface to spindle end) is 5 1/2" 140mm).

Technical data: 110 – 120V, 60Hz, 85W (0.115hp), speeds 1,800/4,700/8,500rpm. The unit comes with six triple slit MICROMOT precision steel collets in sizes 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.4, 3.0 and 3.2mm).
To clamp work pieces we recommend using either one of our machine vises or the X-Y table KT 70 (see page 41) to convert this machine into a high-precision machining center.
NO 38 128

Original German Röhm Chuck

For drill shank sizes from 1/64" to 1/4" (0.5 to 6.0mm) and maximum speeds up to 10,000rpm this chuck offers industrial quality with extra high-speed accuracy. With 3/8" thread.
For MICROMOT Bench Drill Press TBM 115. Including chuck key.
NO 28 122

PROXXON MICROMOT System

Small and beautiful - the accurate mill for lab, optician, jewelry, electronic and model building projects.

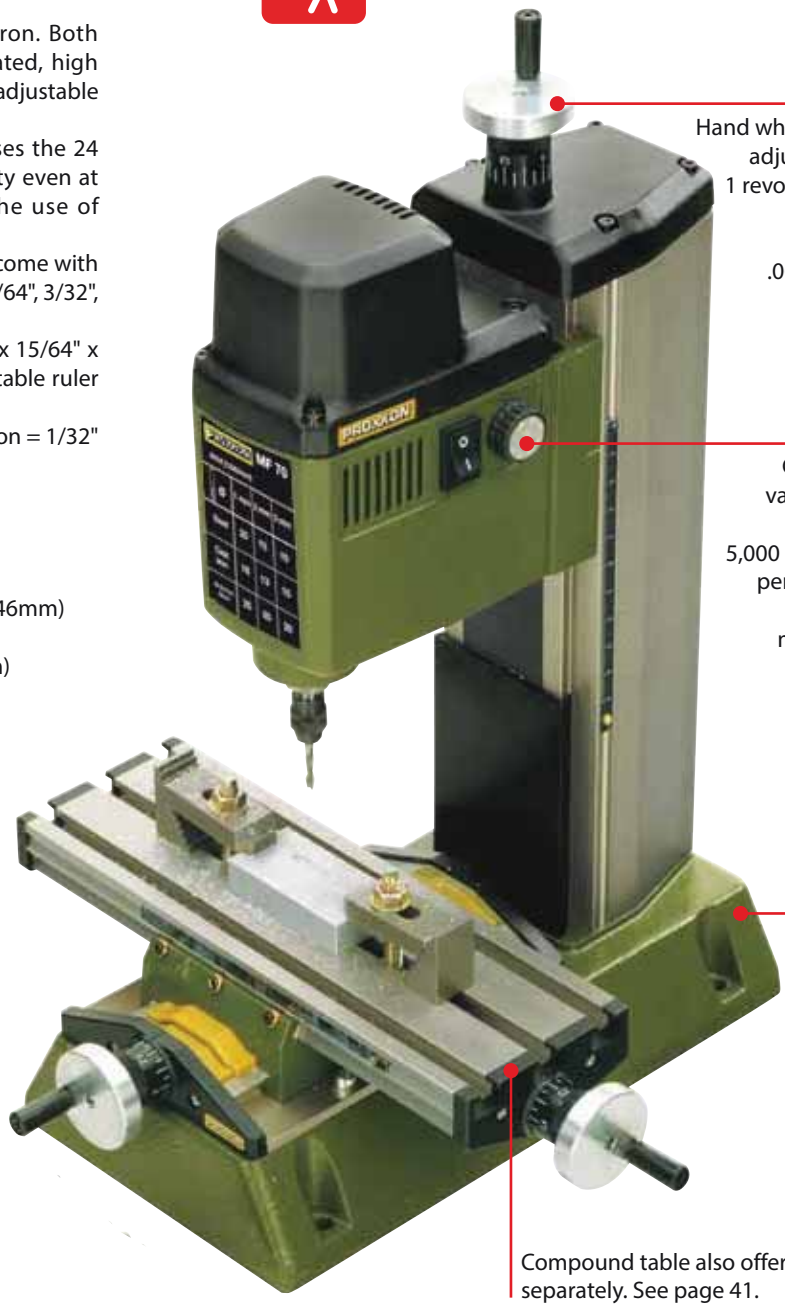
MICRO Mill MF 70

The unit is supplied with a stable base of cast iron. Both vertical column and compound table are of treated, high quality aluminum. All axes are play-free and have adjustable slides.
The headstock, made of die-cast aluminum, houses the 24 pole balanced special motor and provides stability even at high operating speeds. This stability facilitates the use of the finest cutters.
Six triple slit, hardened MICROMOT steel collets come with the machine and cover shank sizes of 1/32", 1/16", 5/64", 3/32", 7/64" and 1/8" (1.0, 1.5, 2.0, 2.35, 3.0, 3.2mm).
The table is fitted with three T-slots of the 15/32" x 15/64" x 13/64" (12 x 6 x 5mm) MICROMOT-norm. An adjustable ruler scale eases the positioning of the work piece.
All hand wheels are zero adjustable with 1 revolution = 1/32" (1.0mm), 1 division = .002" (0.05mm).

Technical data:

Speed	5,000 – 20,000rpm
Table Size	7 7/8" x 2 3/4" (200 x 70mm)
X-Y Travel	5 17/64" and 1 13/16" (134 and 46mm)
Vertical Travel	2 3/4" (70mm)
Footprint Size	5 7/64" x 8 55/64" (130 x 225mm)
Height	13 25/64" (340mm)
Max. Power	1/8hp (100W)
Volts	110 – 120V AC, 60Hz
Weight	15.5 lb (7kg)

NO 37 110



Hand wheels with zero adjustable scales: 1 revolution = 3/64" (1.0mm), 1 division = .002" (0.05mm).

Continuously variable speeds from 5,000 – 20,000rpm, perfect for even the smallest milling cutter.

Stable cast iron base.

Compound table also offered separately. See page 41.

Note: *Optionally this machine may also be used with our three jaw keyless chuck (see page 21, NO 28 941).*

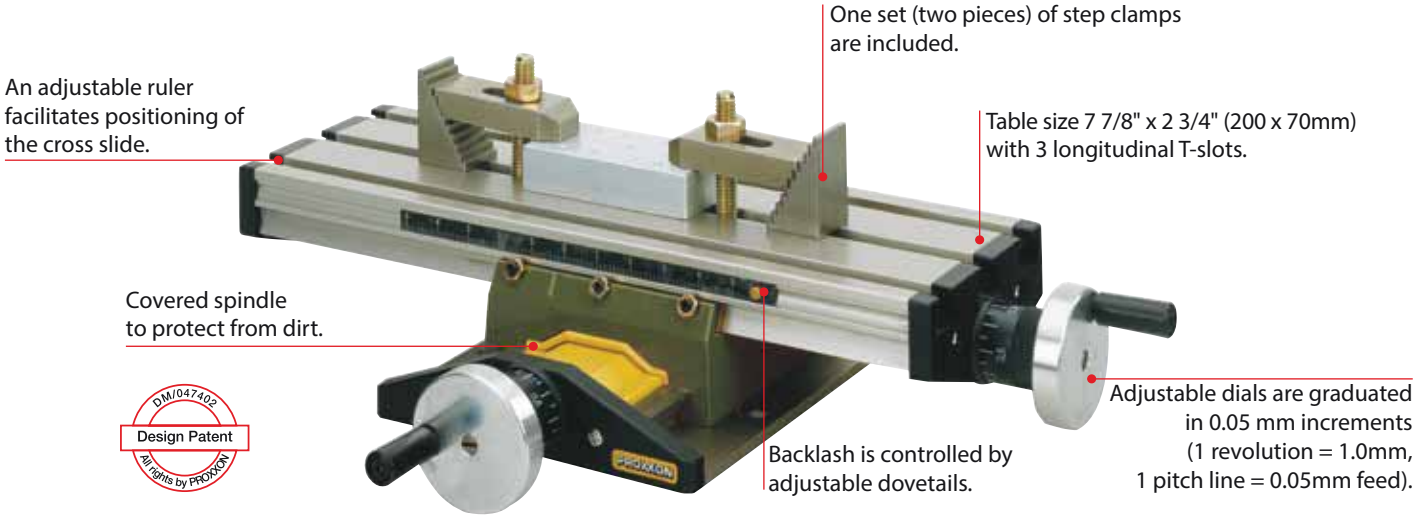
Milling Cutters

These double flute cutters are made from solid tungsten and are to be used for clockwise cutting. The fishtail profile ensures cutting to the center, allowing boring. Usable on cast iron, hardened cast iron, steel, cast steel, brass, aluminum, and even glass, plastics and carbon fiber. The set includes one each of 1/32", 5/64" and 7/64" (1.0, 2.0 and 3.0mm) shank diameter: 7/64" (3.0mm).

NO 27 116

MICRO Compound Table KT 70

For precise milling, boring, drilling or grinding operations as well as positioning.


One set (two pieces) of step clamps are included.
An adjustable ruler facilitates positioning of the cross slide.
Table size 7 7/8" x 2 3/4" (200 x 70mm) with 3 longitudinal T-slots.
Covered spindle to protect from dirt.
DM/047402
Design Patent
All rights by PROXXON
Adjustable dials are graduated in 0.05 mm increments (1 revolution = 1.0mm, 1 pitch line = 0.05mm feed).
Backlash is controlled by adjustable dovetails.

This high-precision cross slide table is the optimal attachment when working with the MICROMOT Drill Stands MB 140/S and MB 200, the Bench Drill Machine TBM 115 or the Machine Vice MS 4. Clamping accessories for easy attachment on or below the above items come with the table. Of course, the table can also be used with other Drill Stands or Drill Presses.
The table is made from surface-treated aluminum, has three longitudinal T-slots and provides dual axes (lateral & cross) positioning via two hand wheels. The hand wheels have zero-resettable dials graduated in 0,05mm increments (1 complete revolution of the hand wheel = 1.0mm, 1 pitch line = 0.05mm feed). One set of step clamps is included.

Other technical data:
Table size: 7 7/8" x 2 3/4" (200 x 70mm), with 3 T-slots in size 15/32" x 15/64" x 13/64" (12 x 6 x 5mm), distance from center-to-center 63/64" (25mm). X-travel 5 9/32" (134mm), Y-travel 1 13/16" (46mm). Overall height: 1 11/16" (43mm).

NO 27 100

Step clamps steel made

Included in the compound table but can be ordered separately (2 step blocks and clamps, T-slot nuts of MICROMOT standard, bolts).
This set also fits the Mill/Lathe System PD 230/E and FF 230/E, secures objects to approx. 0.7".

NO 24 256

Precision Steel Vice PM 40

Especially suited for intricate and accurate working!
Milled of steel. Completely angular. Jaw width 1 13/16" (46mm), clamping capacity 1 3/16" (30mm).
Total length 2 3/4" (70mm).
Ideal for working with MICRO Mill MF 70 or Compound Table KT 70. Slot stones and fixing screws included.
Comes in a wooden box.

NO 24 260

Dividing Attachment for MICRO Mill MF 70 and MICRO Compound Table KT 70

This dividing attachment has been especially designed for use with the MICRO Compound Table KT 70 which is identical to the X-Y table of the MICRO Mill MF 70.

All provided fixing holes match the slot distance of the above items, so that it can be mounted in no time with the included clamping parts either standing or lying on the table. When using it standing upright, also long work pieces can be worked on, as they can be pushed through a hole provided in the base plate. In wooden box with sliding lid.

NO 24 264

PROXXON MICROMOT System

Complete with chuck, live center and top slide for taper turning.

Quality you can see and touch.

The PD 230/E is designed for people who appreciate quality. However, to use this lathe does not mean you need to be a professional turner.

The lathe runs quietly and is small and light enough to be packed away after each usage. The center height and the distance between centers are sufficient for a multitude of tasks.

Lathe PD 230/E

The machine is usable on materials such as plastic, steel, brass and aluminum and comes complete with automatic feed, thread cutting capability, headstock chuck, live center and top slide for taper turning. It may be used to part, turn and cut tapers. The numerous optional accessories add the versatility you need to complete all your miniature projects.

Headstock spindle with 13/32" bore (10.5mm) and MT 1 taper (short).

On/off switch with emergency stop.

Incl. 3-jaw chuck, 5/64" – 2 43/64" (2 – 68mm) capacity.

Gear housing with a chart showing the appropriate speeds for different materials and diameters.

Combination of three speeds (attained by swapping drive belt position) and additional electronic speed control allowing speeds from 100 to 3,000rpm.

Enclosed leading screw for automatic feed of .002" or .004"/ revolution (0.05 or 0.1mm).

Cast iron bed with ground prism for tool rest and tailstock ensures minimal deflection, even at high loads.

DM/041066 Design Patent All rights by PROXXON

Technical data:
Center distance of 9" (230mm), center height 2 13/64" (52mm), swing 4 3/32" (104mm). Height over cross slide 1 7/64" (28mm). Cross slide travel 2 23/64" (60mm) and top slide 1 13/16" (45mm). Tool holder accepts 5/16" x 5/16" (8 x 8 mm) cutters. The MT 1 (short) spindle has a bore of 13/32" (10.5 mm). It runs in precision ball bearings, yielding an accuracy of .0004" (0.01 mm) without chuck. The thread cutting capability covers the most important pitches of .02", .25", .028", .03", .031", .04", .05", .06" (0.5, 0.625, 0.7, 0.75, 0.8, 1.0, 1.25 and 1.5mm). The lathe PD 230/E also offers you the possibility to cut inch system based threads. It is possible to turn the most required thread diameters with thread pitches from 16 up to 64 T.P.I (threads per inch).
Spindle speeds are changed by means of a belt and offer 300, 900 and 3,000rpm.
The electronic speed control extends the speed range down to

PROXXON MICROMOT System

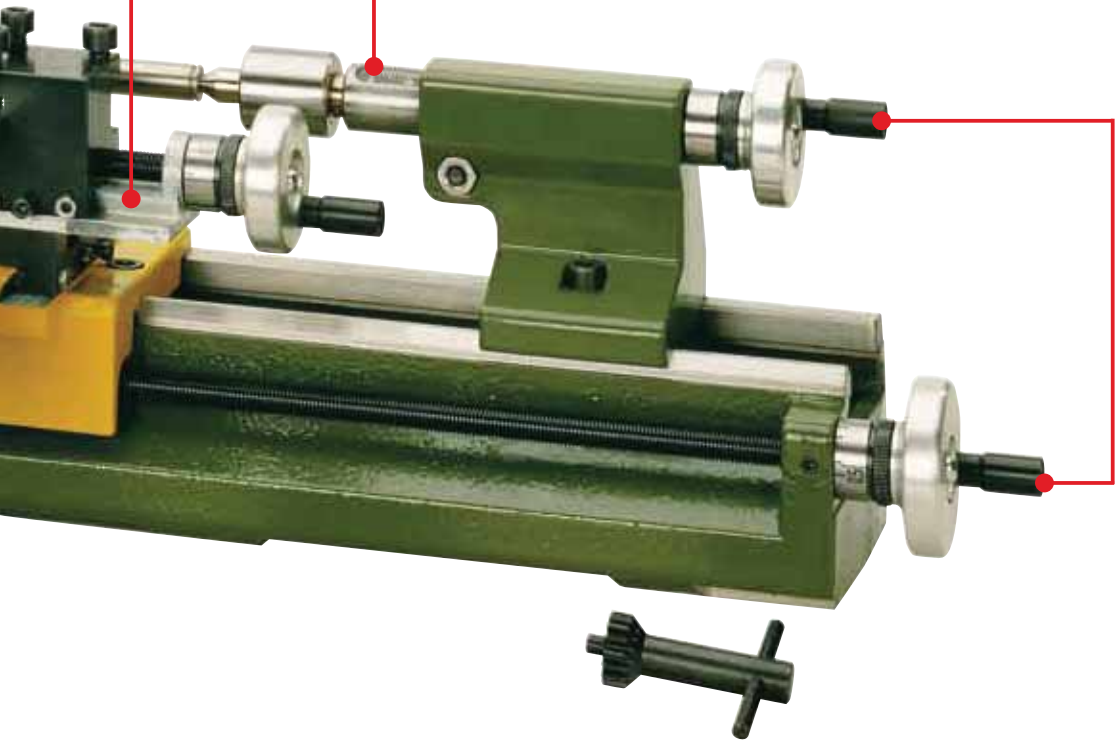
Build a complete machining center with the mill head on your lathe.

The Mill/Drill Head PF 230 converts your Lathe PD 230/E into a machining center.

The Mill/Drill Head PF 230 comes with a column size 1 3/8" x 15 3/4" (35 x 400mm) including the necessary mounting bracket and bolts to attach it to the Lathe PD 230/E.
The lathe's top slide is then replaced with the table (supplied with the Mill/Drill Head PF 230). The table has a size of 4 5/16" x 2 3/4" (110 x 70mm) and 3-T slots 15/32" x 15/64" x 15/64" (12 x 6 x 6mm). The lathe now functions as a compound table, with X-Y travel being longitudinal and cross-wise respectively.
Three collets of sizes 15/64" – 5/16" and 25/64" (6, 8, 10mm) are included.
NO 34 104

Note: *Top slide for taper turning and the tool holder are included as standard.*

MT 1 (short) live center included as standard.

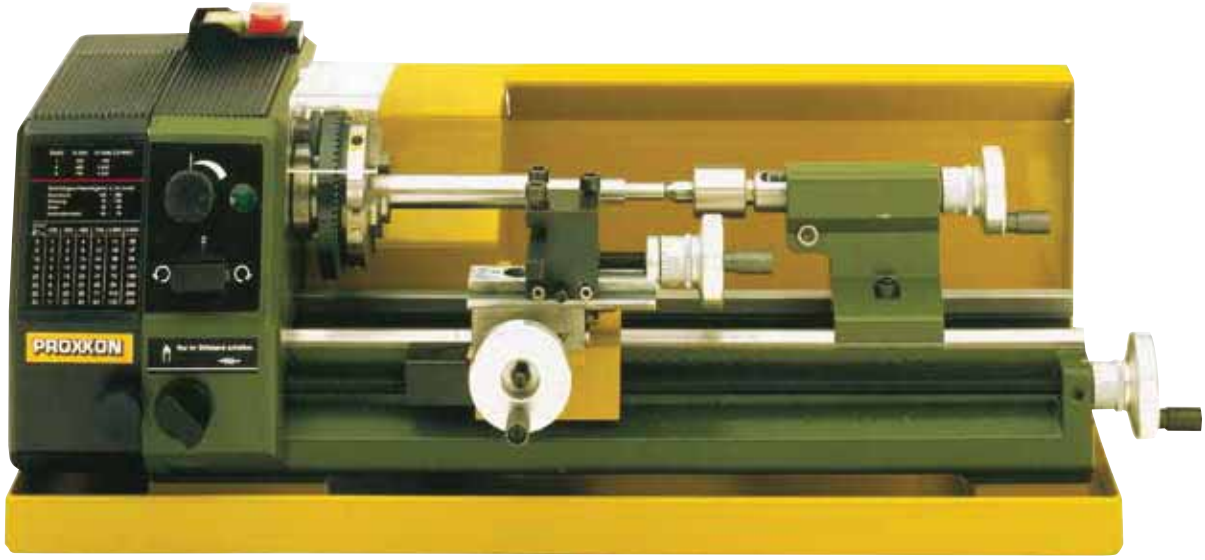


Practical hand wheels with zero adjustable scales. 1 division = .002" (0.05mm), 1 revolution = .004" (1mm).

100rpm, which is important when cutting threads. The automatic feed offers .002" and .004" (0.05 and 0.1mm) per revolution. The tailstock spindle has a MT 1 (short) bore and 1 3/16" (30mm) travel. The 110 – 120V motor (1/5hp) is fitted with a forward/reverse switch. The three jaw chuck offers 5/64" to 1 3/8" (2 – 35mm) clamping capacity (internal jaws) and 3/32" to 2 43/64" (24 – 68mm) (external jaws). The practical hand wheels are fitted with zero adjustable scales. One revolution equals .004" (1mm) feed (20 divisions) and hence .002"/division (0.05mm). Weight approx. 30 lb and dimensions approx. 21" x 9.8" x 5.9".

NO 34 004

Splash guard and chip collecting tray for PD 230/E



Made from 1/16" (1.5 mm) sheet metal, powder coated. Mounting hole and raised base to secure lathe are pre-drilled. 19.5 x 8.5 x 6" (495 x 215 x 150 mm)
NO 24 006

Tool Holder for rotary tools. For use on lathe machines.

This holder allows mounting of our rotary tool IBS/E (collar size 4/5" (20 mm)) to the tool post of the Lathe PD 230/E for grinding or polishing purposes.

NO 24 098

HSS Boring Tool Set

One each cutter for 60 degree (metric) and 55 degree (Whitworth) inside threads, 3/64" (1.3mm), 7/64" (2.65mm) and 5/32" (4mm). Shank: 15/64" (6mm). Length: 3 3/16" (95 mm). The cutters are held by a tool holder that mounts to the tool post of the PD 230/E.
Comes in a wooden box.
NO 24 520 6 pieces

Collet Set fur accurate use on round components

One each 5/64" – 3/32" – 7/64" – 5/32" – 13/64" – 15/64" – 5/16" and 12/32" (2.0 – 2.5 – 3.0 – 4.0 – 5.0 – 6.0 – 8.0 and 10mm) are included. Concentric accuracy better than 0.02mm, much better than a chuck. The collets are mounted in place of the headstock chuck.
Supplied in a wooden box and lid.
No 24 042

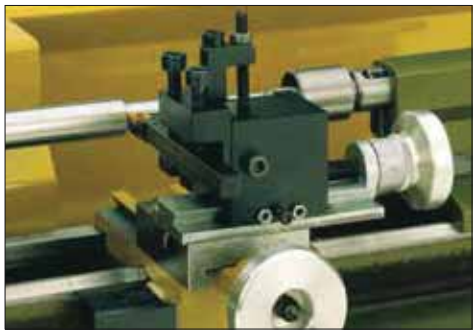
Die Holder for round dies, threads M 3 to M 10

Sizes: M 3 – 4 – 5 – 6 – 8 – 10. The straight shank 13/32" fits our drill chuck NO 24 020 when mounted in the tailstock of the PD 230/E. The holder is held by hand while cutting the threads.
Comes in a wooden box.
NO 24 082

Edge Finder Set

Used for fast and accurate location of starting point of work pieces with respect to the machine spindle on milling machines. Size 15/64" x 15/64" x 2" (6 x 6 x 50 mm) and 15/64" x 3/16" x 3" (6 x 5 x 75mm).
Comes in a wooden box.

NO 24 434

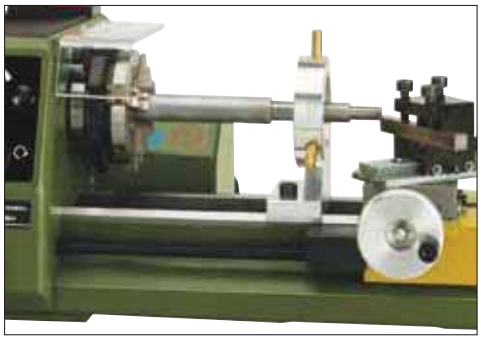


Quick Change Tool Post
Including 2 tool holders. Enables quick tool changes and easy hight adjustments.
NO 24 022

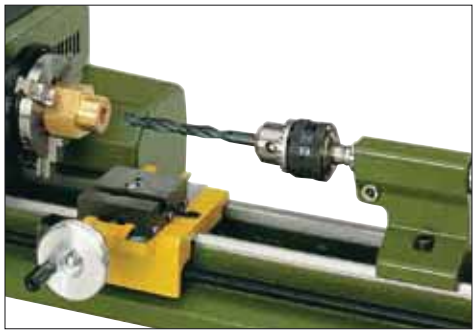
Additional Quick Change Tool Holder
Used with the above quick change tool post.
NO 24 024

Four Jaw Chuck
The 4 jaws are adjusted independently. This feature allows clamping unsymmetrical pieces such as ovals, squares or other odd-shaped work pieces. The jaws are reversible and hardened, giving a capacity of 3 5/32" (80mm). The work piece must be centered manually.
NO 24 030

Radius Turning Attachment
For working on convex and concave shapes. Can be mounted on the cross slide instead of the tool holder. Enables turning of radii or 3/4 balls up to max. 1 1/4" (32mm) in steel (max. cutting depth 1/32" (1mm), non-ferrous metals and plastics. Comes with one finishing cutter 5/16"x 5/16" (8 x 8mm) in a wooden box.
NO 24 061



Fixed Steady
Used when turning long, slender pieces, capacity up to 1 37/64" (40mm).
Also used when the tailstock cannot be utlized.
NO 24 080



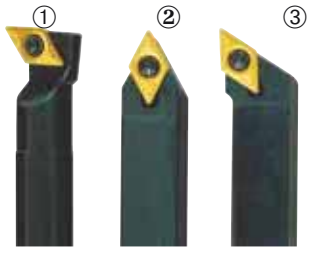
Drill Chuck
German industrial drill chuck, capacity up to 13/32" (10mm), with key and MT 1, for tailstock.
NO 24 020

Same as above
German industrial drill chuck for MICRO Mill PF 230 and FF 230 with 13/32" (10mm) capacity and 13/32" (10mm) arbor to fit the 10mm collet.
NO 24 110

Center Turning Attachment
Used for highest accuracy with high rotational precision. One face plate, 2 fixed MT 1 (short) centers, and 1 drive dog are included.

NO 24 070

Cutter Set with tungsten inserts for PD 230/E



Three holders 5/16" x 5/16" x 3 35/64", for ① roughing out, ② finishing cuts and ③ boring bar, holes from 15/32". Standard tungsten tips, 55°, plated. Three additional inserts, securing screws an key TX8 are included.
NO 24 555 8 x 8mm (for PD 230/E)

Tungsten Disposable Tips
for the holders 24 555. Ten piece set.
NO 24 557

The lathe tools are made from high-quality Cobalt HSS, pre-ground. Packed in wooden boxes with sliding lid.

Five Piece Cutting Set

5/16" x 5/16" x 3 9/64" (8 x 8 x 80mm), for the PD 230/E. One each roughing out, parting, finishing cut, left and right cutter.
NO 24 530

Three Piece Thread Cutting Set

15/64" x 5/16" x 3 9/64" (6 x 8 x 80mm), for the PD 230/E. One cutter for external thread (ground to 60°, metric), one for internal thread, one general cutting.
NO 24 540

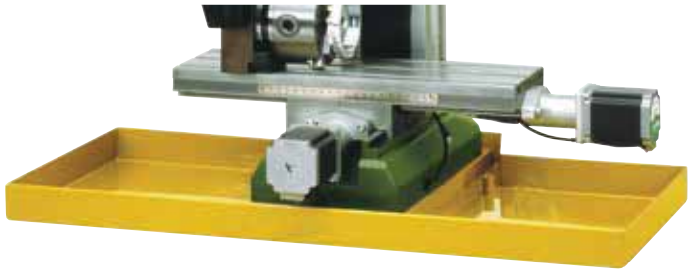
Three Piece Center Drill Set

HSS, 60°. Complete set with sizes of 5/64", 3/32", 1/8" (2.0, 2.5 and 3.15mm).
NO 24 630

PROXXON MICROMOT System

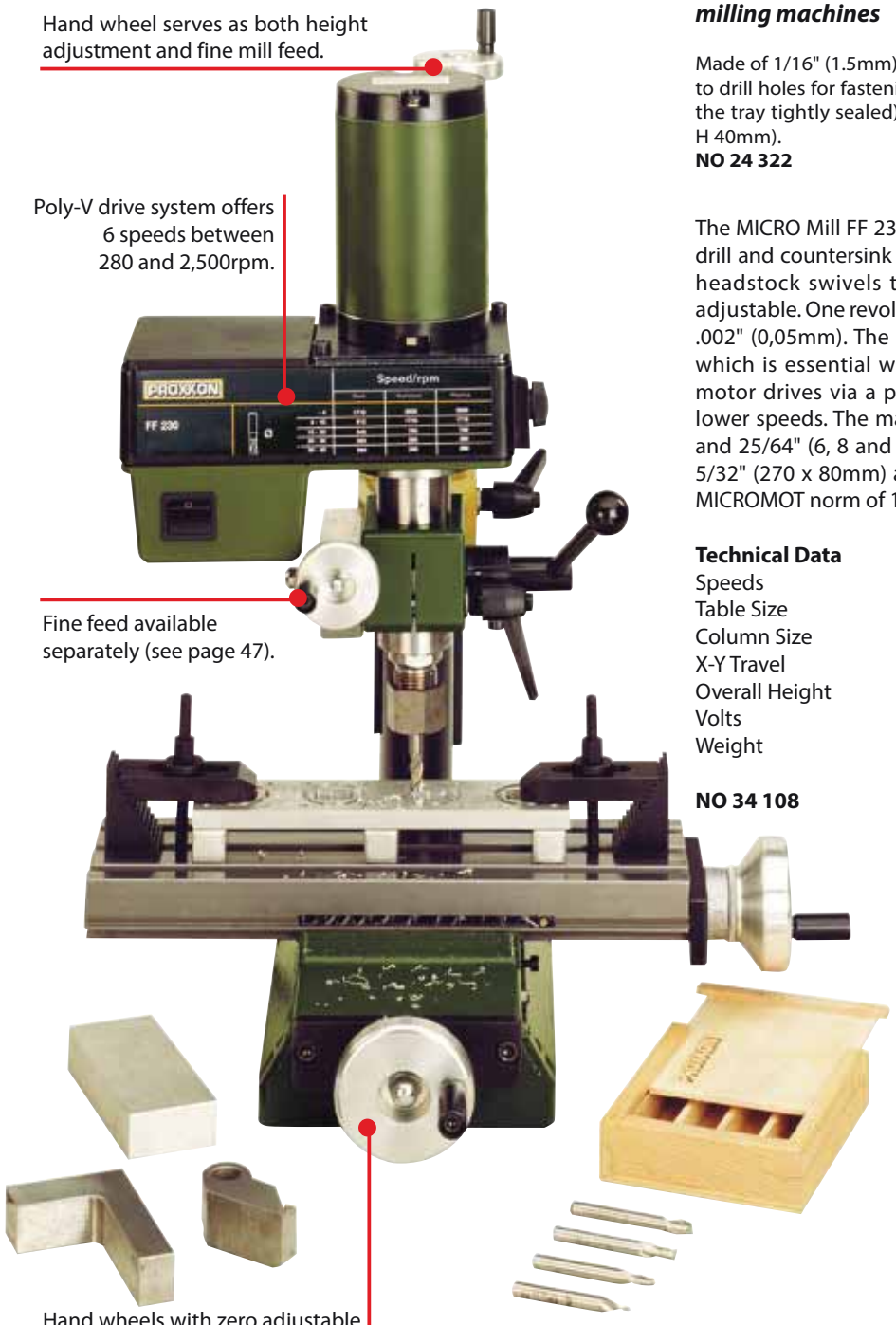
A small, high accuracy machining system to mill, drill and bore.

MICRO Mill FF 230



Splash guard and chip collecting tray for PROXXON milling machines

Made of 1/16" (1.5mm) thick sheet steel, powder-coated. Secure stand due to drill holes for fastening to a work surface (the use of steel sleeves keeps the tray tightly sealed). 27 1/2" x 16/12" x 1 37/64" (L 700mm, W 420mm, H 40mm).
NO 24 322


Hand wheel serves as both height adjustment and fine mill feed.
Poly-V drive system offers 6 speeds between 280 and 2,500rpm.
Fine feed available separately (see page 47).
Hand wheels with zero adjustable scale, 1 rev = 1/16" (1.5mm), 1 division = .002" (0.05mm).

The MICRO Mill FF 230 is a small, accurate milling system used to mill, drill and countersink steel, cast iron, aluminum, brass and plastic. The headstock swivels through 360°, indicated on a scale. Height is adjustable. One revolution equals 1/32" (1mm) travel, 1 division equals .002" (0,05mm). The quill and headstock may be locked in position, which is essential when milling. The powerful permanent magnet motor drives via a poly-v-belt, yielding high torques, especially at lower speeds. The machine comes with three collets of 15/64", 5/16" and 25/64" (6, 8 and 10mm). The solid table has a size of 10 5/8" x 3 5/32" (270 x 80mm) and is T-slotted to 15/32" x 15/64" x 13/64" (the MICROMOT norm of 12 x 6 x 5mm).

Technical Data

Speeds	280, 550, 870, 1,200, 1,500, 2,200rpm
Table Size	10 5/8" x 3 5/32" (270 x 80mm)
Column Size	Ø 1 3/8" x 15 3/4" long (35 x 400mm)
X-Y Travel	6 11/16" x 2 9/16" (170mm x 65mm)
Overall Height	20" (500mm)
Volts	110 – 120V AC, 60Hz
Weight	41 lb. (17kg)

NO 34 108

The clamps and work piece shown are not included. Step clamp set see page 47.

Important:
For best results when milling, it is recommended to lock the headstock. This is easily done via the FF 230's lock levers.

Fine Feed for Mill/Drill Head PF 230 and MICRO Milling Machine FF 230

Easily installed. The feed may now be used via the height feed (vertical) or the fine feed in the tilted position. One revolution is equivalent to 1/16" (1.5mm) spindle travel, with 1 division = .002" (0.05mm). The graduated scale can be reset to zero.
NO 24 140

Compound Table KT 230

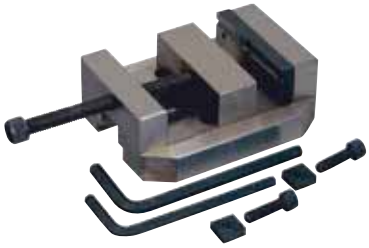
The individually available solid table is the same as described with the MICRO Mill FF 230 above, has a size of 10 5/8" x 3 5/32" (270 x 80mm) and is T-slotted to 15/32" x 15/64" x 13/64" (the MICROMOT norm of 12 x 6 x 5mm). The compound table does not include the headstock and column. The Mill Drill/Head PF 230 may be attached to it.
NO 24 106

Five Piece Collet Set for PF 230 and FF 230

Includes 1 each collet for round stock 3/32", 7/64", 1/8", 5/32" and 13/64" (2.4 – 3.0 – 3.2 – 4.0 and 5.0mm). Supplied in a wooden box and lid.
NO 24 144

Step Clamp Set

Made of steel. Complete with 2 step blocks, 2 clamps, 2 nuts and 2 T-slot nuts for MICROMOT standard (29/64" x 7/16" x 5/32" / 11.5 x 11 x 4mm). For use with the lathe systems PD 230/E, KT 150 and MF 70
NO 24 256



Precision Machine Vice

Milled in steel.
Can be used on its side and back.
Width of jaws 2 3/8" (60mm), clamping capacity 1 2/3" (42mm).
Complete with mounting bolts. Packed in a wooden box.
NO 24 255

Precision V-Blocks

Used to clamp various work pieces. Made from hardened steel, precision ground in pairs. Four different depths of prism incisions V, all at 90°. Size 2" x 1 3/16" x 1 3/16" (50 x 30 x 30mm). The solid clamp and knurled knob ensure superb securing of the work piece.
NO 24 262 2 pieces

Step Clamp Set

Consists of 2 step blocks and 2 clamps, 2 nuts, 2 T-slot nuts. Secures objects to approx. 1 3/8" (35 mm) high. May be used with PD 230/E and FF 230. Supplied in wooden box.

NO 24 257

Milling Cutter Set 5/64" – 13/64" (2 – 5mm)

HSS, all with 15/64" (6mm) shank. Cutters of Ø 5/64", 7/64", 5/32" and 13/64" (2, 3, 4 and 5mm). Double fluted. Supplied in wooden box.
NO 24 610

Milling Cutter Set 15/64" – 13/32" (6 – 10mm)

HSS, 4 cutters Ø 15/64", 9/32", 5/16" and 13/32" (6, 7, 8 and 10mm).
Four flute design. Supplied in wooden box.
NO 24 620

Dividing Attachment for Lathe- and Mill System PD 230/E

Facilitates the machining of gear teeth and non-concentric patterns. Supplied with two dividing discs (40 and 48 steps), enabling standard division of 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 40 and 48. The spindle of the attachment is identical to that of the lathe. The 3 and 4 jaw chucks may therefore be fitted to it as well (the chuck is an optional accessory). May be fitted to the lathe's cross slide or to the bed and can be fitted to the MICRO Mill FF 230.
NO 24 131

Self-centering 3 jaw chuck

Identical to the chuck of Lathe PD 230/E. Capacity 5/64" to 2 43/64" (2 – 68mm), with reversing jaws. For use on lathe PD 230/E and dividing attachment NO 23 131.
NO 24 028

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Steinicke, Wittlich

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